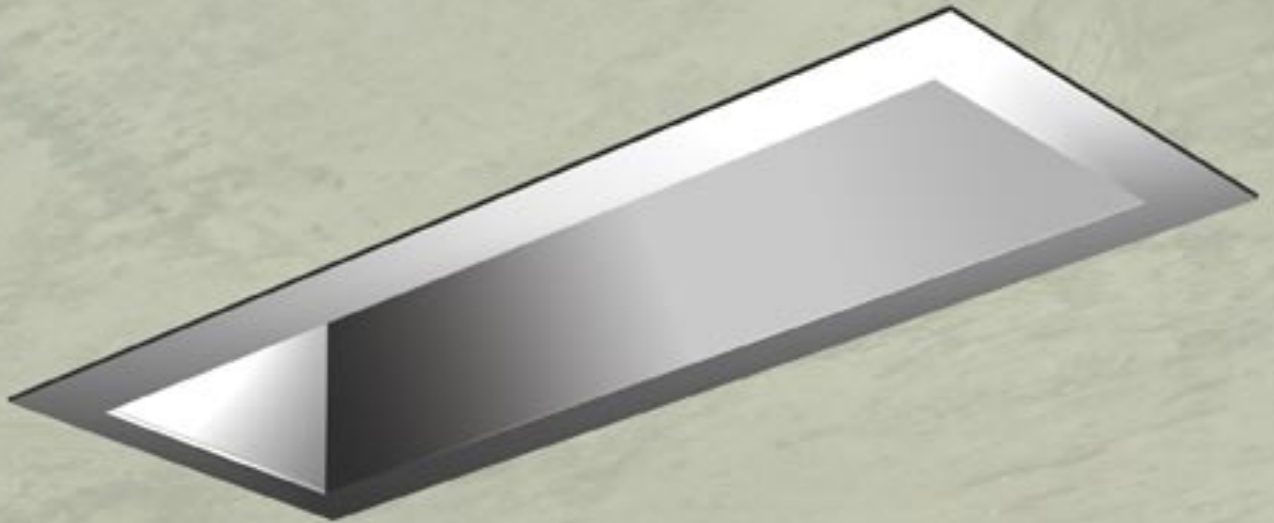


COMBO EDGE

recessed multi-lamp fixtures

with a deep regressed

splayed trim



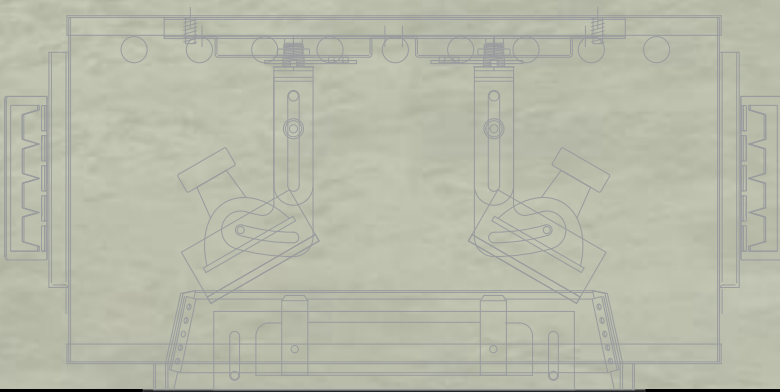
available in low voltage halogen

line voltage incandescent

metal halide and

compact fluorescent

lamp sources




COOPER Lighting

RSA LIGHTING

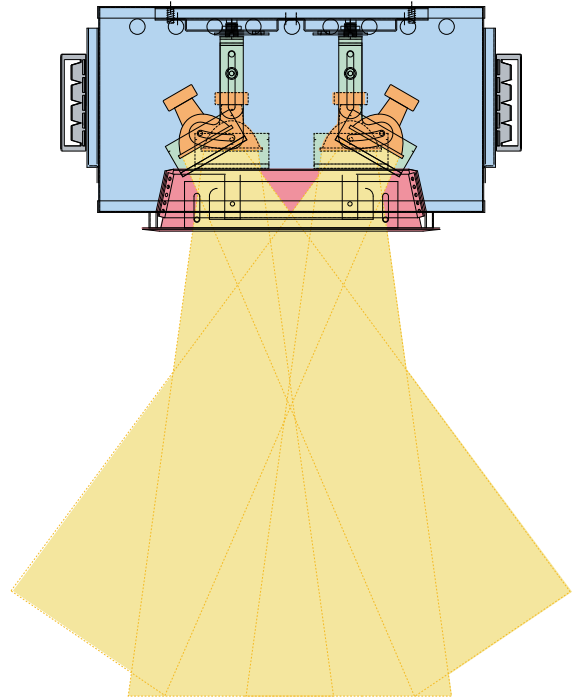
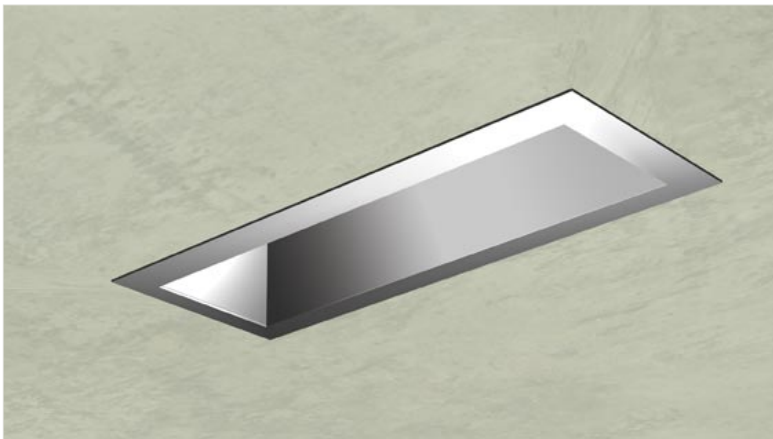


Combo Edge is an all new multi-lamp luminaire which combines all of the adjustable features of RSA's Combolight with a new deep regressed trim. These splayed trims offer increased cut-off due to the deep position of the lamp source. With independently adjustable locking lamp holders that allow a full 368° x 45° of range, Combo Edge is ideal for retail and museum display applications. Combo Edge is available with low voltage halogen, line voltage incandescent, metal halide (including the new BriteSpot ES16 lamp) and compact fluorescent triple tube lamps.

COMBO EDGE ACCENT / DOWNLIGHTS

page 4 - 17

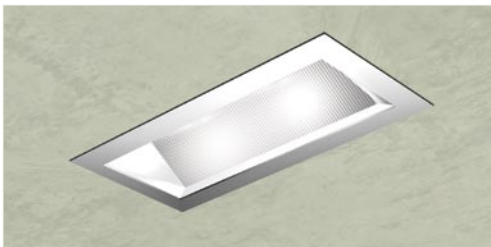
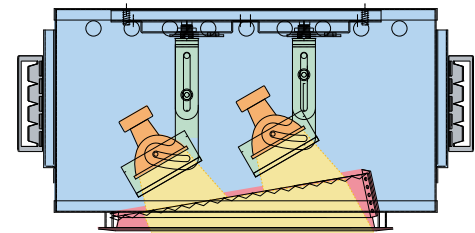
The Accent/Downlight fixtures offer the widest range of application possibilities. The Combo Edge trim insert has a 2" depth (2.5" on PAR38 models) with 77° taper which offers greatly reduced lamp glare. The fixture housing includes an adjustable plaster frame which can accommodate ceiling thicknesses from 1/2" to 1-3/8". The height of the lamp holders adjust to the position of the reflector to always allow optimal lamp placement.



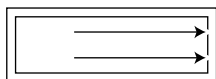
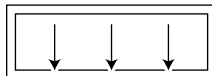
COMBO EDGE WALL WASHERS

page 20 - 32

The Wall Washer fixtures enable clean and even illumination across vertical surfaces. The upper aperture of the trim insert is cut at an angle to allow the lamp beam greater access for illumination. Combo Edge Wall Washers are available with trim inserts configured for lateral installations or transverse installations. These fixtures utilize the same highly adjustable lamp holder as the accent downlights. Included with every wall washer is a linear spread lens which increases the spread of light and helps to even out the lamp beam for a smooth wash of light.



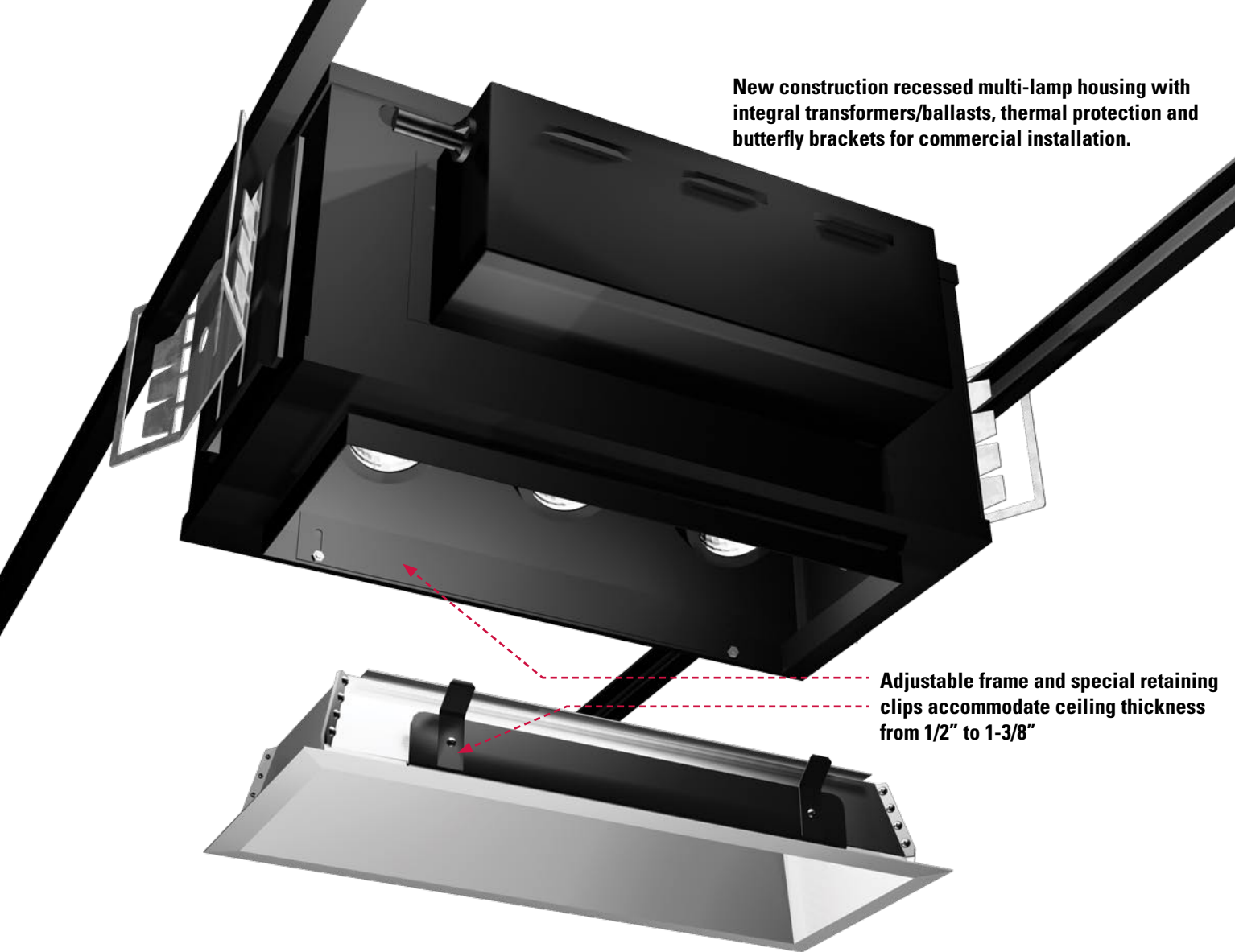
Wall Washer with Lateral Configuration



Wall Washer with Transverse Configuration



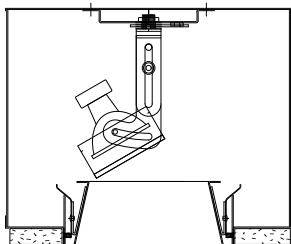
New construction recessed multi-lamp housing with integral transformers/ballasts, thermal protection and butterfly brackets for commercial installation.



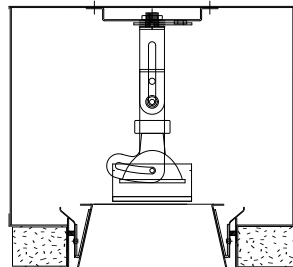
Adjustable frame and special retaining clips accommodate ceiling thickness from 1/2" to 1-3/8"

Adjustable lamp holders enable the use of one housing type with three different trim inserts - Accent/Downlight, Lateral Wall Washer & Transverse Wall Washer

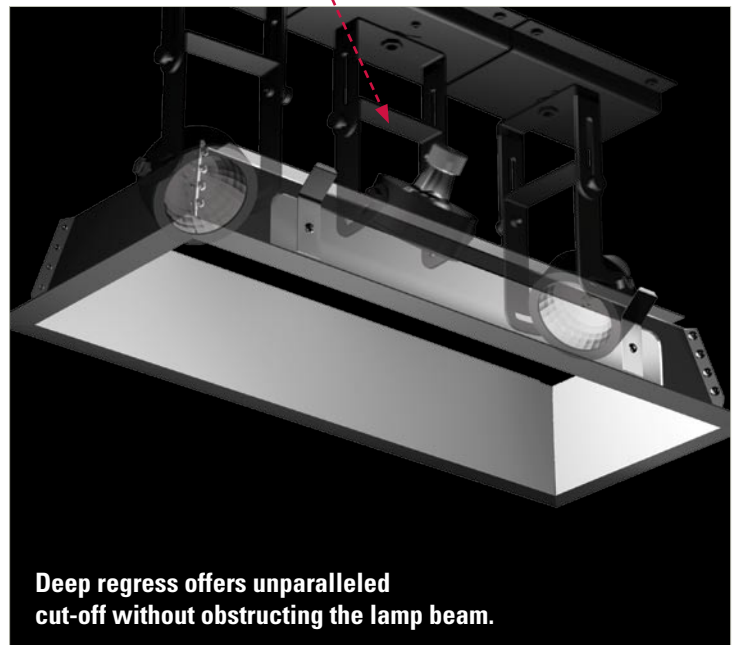
Can accommodate ceiling thicknesses from 1/2" to 1-3/8". Lamp holder height adjusts to accommodate the position of the reflector to always allow optimal lamp placement.



1/2" Ceiling



1-3/8" Ceiling



Deep regress offers unparalleled cut-off without obstructing the lamp beam.

Accent/Downlight Fixture Lamp Types

MR16 12 Volt Halogen page 6

AR70 12 Volt Halogen page 7

AR111 12 Volt Halogen page 8

PAR16 120 Volt Incandescent page 9

PAR20 120 Volt Incandescent page 10

PAR30 120 Volt Incandescent page 11

PAR38 120 Volt Incandescent page 12

ES16 BriteSpot Metal Halide page 13

PAR20 Metal Halide page 14

PAR30 Metal Halide page 15

PAR38 Metal Halide page 16

Triple Tube Fluorescent page 17



**Retractable
for thinner
ceilings**



**Extendable
for thicker
ceilings**



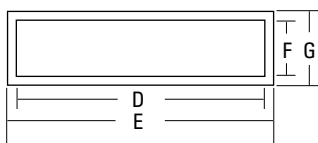
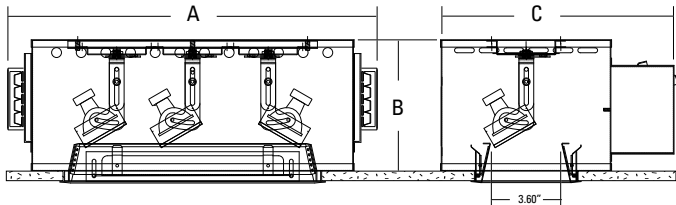
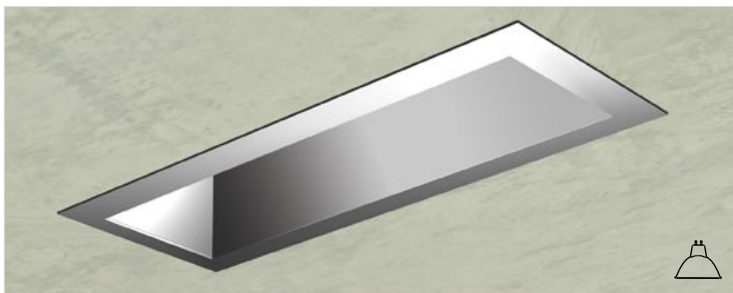
**Swing-back
adjustment and 45° tilt
for greater aiming**



368° Rotation

COMBO EDGE - ACCENT/DOWNLIGHT - 12V MR16

COMBO EDGE - ACCENT/DOWNLIGHT - 12V MR16



3 light fixture shown above
Also available in 1 light and 2 light fixtures

HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	11.66"	6.66"	11.84"	5.27" x 5.30"
2 Light	15.51"	6.66"	11.84"	9.30" x 5.30"
3 Light	19.36"	6.66"	11.84"	13.15" x 5.30"

TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	4.50"	5.60"	4.50"	5.60"
2 Light	8.52"	9.62"	4.50"	5.60"
3 Light	12.37"	13.47"	4.50"	5.60"

TRIM INSERT FINISHES

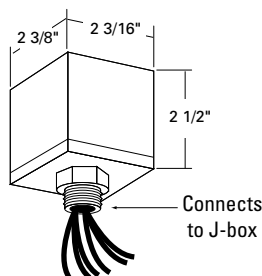
Black Powder Coat

White Powder Coat

Clear Alzak



Optional Relay Emergency Module - add "-EM" to the end of the catalog number



COMBO EDGE - ACCENT/DOWNLIGHT

Fixture Type

CED1M16	(1) One Light 12V MR16
CED2M16	(2) Two Light 12V MR16
CED3M16	(3) Three Light 12V MR16

Wattage

20	20 Watt 12V MR16
37	37 Watt 12V MR16
42	42 Watt 12V MR16
50	50 Watt 12V MR16
71	71 Watt 12V MR16

Trim Finish

BK	Black Alzak
WH	White Powder Coat
CA	Clear Alzak
PT	Custom Color (Specify)

Voltage

120	120V (Standard)
277	277V

Emergency Lighting

EM	Relay Emergency Module
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Ordering Example

CED3M16-37-CA-120

3 Light Combo Edge Accent/Downlight for MR16 lamp, 37 watt, Clear Alzak trim, 120V

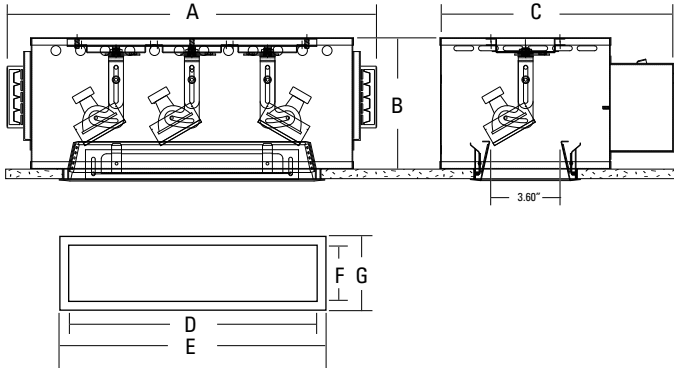
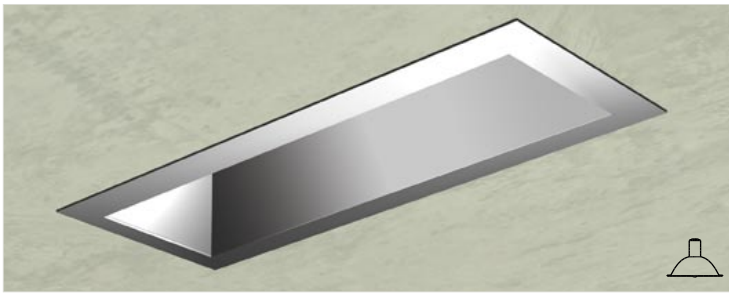
Options

Optical accessories include: Baffles, Snoots, Louvers and Lenses. See page 33 for details.

Features

- Available in 1, 2 or 3 light fixtures
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured with integral electronic transformers
- Electrical J-Box and transformers easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations
- Optional Relay Emergency Module allows the conversion of one of the fixture's lamps to function as a remote emergency unit when supplied by a 12V DC emergency power source. Module does not contain batteries. Will operate with 85W lamp maximum. Wattage consumed in emergency mode is lamp wattage + 0.9W. (See page 33 for details.)

COMBO EDGE - ACCENT/DOWNLIGHT - 12V AR70



3 light fixture shown above
Also available in 1 light and 2 light fixtures

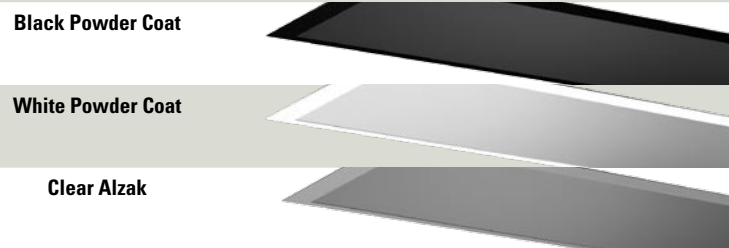
HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	11.66"	6.66"	11.84"	5.27" x 5.30"
2 Light	15.51"	6.66"	11.84"	9.30" x 5.30"
3 Light	19.36"	6.66"	11.84"	13.15" x 5.30"

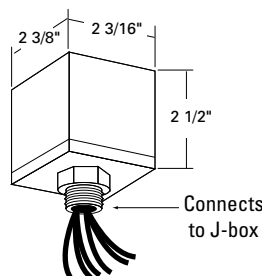
TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	4.50"	5.60"	4.50"	5.60"
2 Light	8.52"	9.62"	4.50"	5.60"
3 Light	12.37"	13.47"	4.50"	5.60"

TRIM INSERT FINISHES



Optional Relay Emergency Module - add "-EM" to the end of the catalog number



COMBO EDGE - ACCENT/DOWNLIGHT

Fixture Type	
CED1A70	(1) One Light 12V AR70
CED2A70	(2) Two Light 12V AR70
CED3A70	(3) Three Light 12V AR70
Wattage	
20	20 Watt 12V AR70
50	50 Watt 12V AR70
Trim Finish	
BK	Black Alzak
WH	White Powder Coat
CA	Clear Alzak
PT	Custom Color (Specify)
Voltage	
120	120V (Standard)
277	277V
Emergency Lighting	
EM	Relay Emergency Module

Ordering Example

CED3A70-50-CA-120

3 Light Combo Edge Accent/Downlight for AR70 lamp, 50 watt, Clear Alzak trim, 120V

Options

Optical accessories include: Baffles, Snoots, Louvers and Lenses. See page 33 for details.

Features

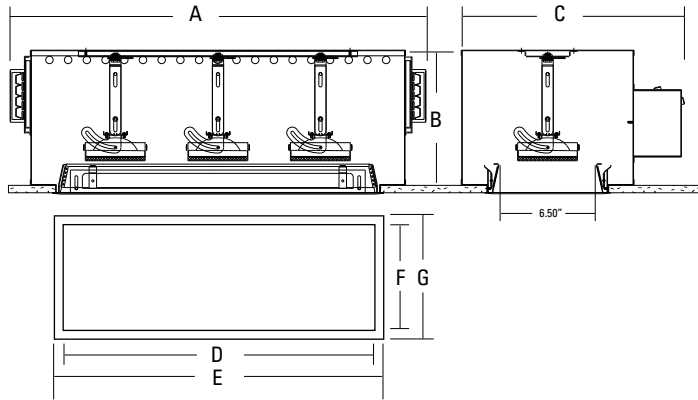
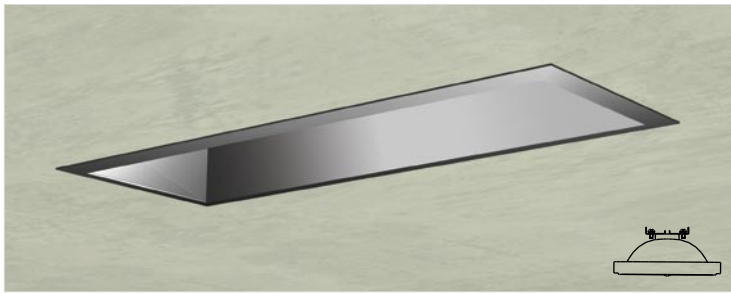
- Available in 1, 2 or 3 light fixtures
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured with integral electronic transformers
- Electrical J-Box and transformers easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations
- Optional Relay Emergency Module allows the conversion of one of the fixture's lamps to function as a remote emergency unit when supplied by a 12V DC emergency power source. Module does not contain batteries. Will operate with 85W lamp maximum. Wattage consumed in emergency mode is lamp wattage + 0.9W. (See page 33 for details.)

COMBO EDGE - ACCENT/DOWNLIGHT - 12V AR70



COMBO EDGE - ACCENT/DOWNLIGHT - 12V AR111

COMBO EDGE - ACCENT/DOWNLIGHT - 12V AR111



3 light fixture shown above
Also available in 1 light and 2 light fixtures

HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	14.36"	9.00"	14.72"	8.074" x 8.18"
2 Light	21.21"	9.00"	14.72"	14.92" x 8.18"
3 Light	28.06"	9.00"	14.72"	21.72" x 8.18"

TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	7.37"	8.47"	7.37"	8.47"
2 Light	14.22"	15.32"	7.37"	8.47"
3 Light	21.07"	22.17"	7.37"	8.47"

TRIM INSERT FINISHES

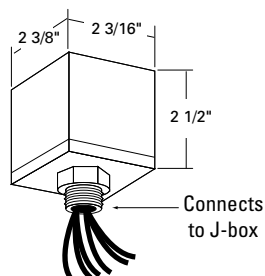
Black Powder Coat

White Powder Coat

Clear Alzak



Optional Relay Emergency Module - add "-EM" to the end of the catalog number



COMBO EDGE - ACCENT/DOWNLIGHT

Fixture Type

CED1A111	(1) One Light 12V AR111
CED2A111	(2) Two Light 12V AR111
CED3A111	(3) Three Light 12V AR111

Wattage

35	35 Watt 12V AR111
50	50 Watt 12V AR111
75	75 Watt 12V AR111
100	100 Watt 12V AR111

Trim Finish

BK	Black Alzak
WH	White Powder Coat
CA	Clear Alzak
PT	Custom Color (Specify)

Voltage

120	120V (Standard)
277	277V

Emergency Lighting

EM	Relay Emergency Module
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Ordering Example

CED3A111-35-CA-120

3 Light Combo Edge Accent/Downlight for AR111 lamp, 35 watt, Clear Alzak trim, 120V

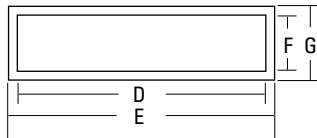
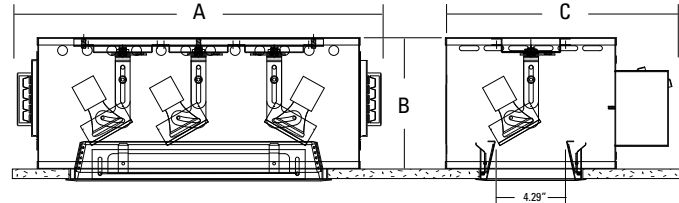
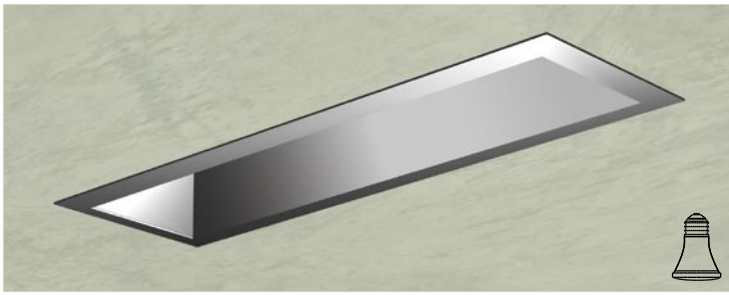
Options

Optical accessories include: Baffles, Snoots, Louvers and Lenses. See page 33 for details.

Features

- Available in 1, 2 or 3 light fixtures
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured with integral electronic transformers
- Electrical J-Box and transformers easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations
- Optional Relay Emergency Module allows the conversion of one of the fixture's lamps to function as a remote emergency unit when supplied by a 12V DC emergency power source. Module does not contain batteries. Will operate with 85W lamp maximum. Wattage consumed in emergency mode is lamp wattage + 0.9W. (See page 33 for details.)

COMBO EDGE - ACCENT/DOWNLIGHT - 120V PAR16



3 light fixture shown above
Also available in 1 light and 2 light fixtures

HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	12.51"	8.25"	12.44"	6.10" x 5.97"
2 Light	19.36"	8.25"	12.44"	12.97" x 5.97"
3 Light	26.21"	8.25"	12.44"	19.82" x 5.97"

TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	5.35"	6.45"	5.16"	6.26"
2 Light	12.20"	13.30"	5.16"	6.26"
3 Light	19.05"	20.15"	5.16"	6.26"

TRIM INSERT FINISHES

Black Powder Coat



White Powder Coat



Clear Alzak



COMBO EDGE - ACCENT/DOWNLIGHT

Fixture Type

CED1P16	(1) One Light 120V PAR16
CED2P16	(2) Two Light 120V PAR16
CED3P16	(3) Three Light 120V PAR16

Wattage

75	75 watts max. 120V PAR16
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Trim Finish

BK	Black Alzak
WH	White Powder Coat
CA	Clear Alzak
PT	Custom Color (Specify)

Ordering Example

CED3P16-75-CA

3 Light Combo Edge Accent/Downlight for PAR16 lamp, 75 watts max., Clear Alzak trim

Options

Optical accessories include: Baffles, Snoots, Louvers and Lenses. See page 33 for details.

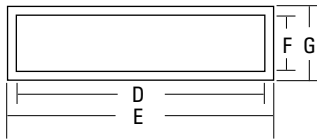
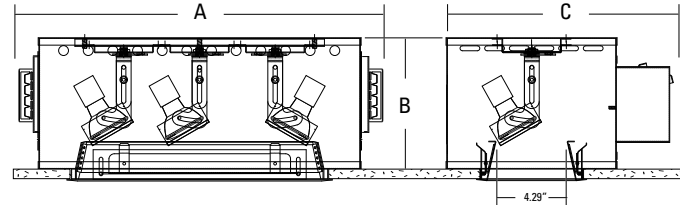
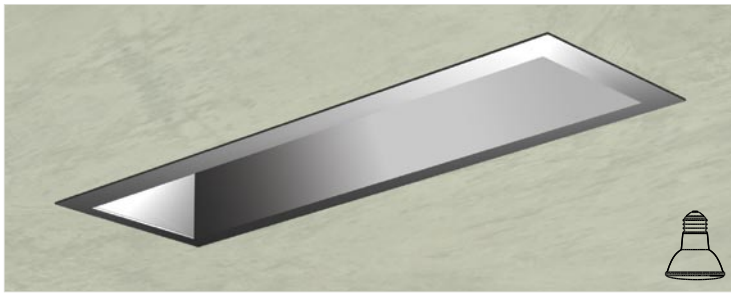
Features

- Available in 1, 2 or 3 light fixtures
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured for line voltage connection
- Electrical J-Box easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations



COMBO EDGE - ACCENT/DOWNLIGHT - 120V PAR20

COMBO EDGE - ACCENT/DOWNLIGHT - 120V PAR20



3 light fixture shown above
Also available in 1 light and 2 light fixtures

HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	12.51"	8.25"	12.44"	6.10" x 5.97"
2 Light	19.36"	8.25"	12.44"	12.97" x 5.97"
3 Light	26.21"	8.25"	12.44"	19.82" x 5.97"

TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	5.35"	6.45"	5.16"	6.26"
2 Light	12.20"	13.30"	5.16"	6.26"
3 Light	19.05"	20.15"	5.16"	6.26"

TRIM INSERT FINISHES

Black Powder Coat

White Powder Coat

Clear Alzak



COMBO EDGE - ACCENT/DOWNLIGHT

Fixture Type

CED1P20	(1) One Light 120V PAR20
CED2P20	(2) Two Light 120V PAR20
CED3P20	(3) Three Light 120V PAR20

Wattage

50	50 watts max. 120V PAR20
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Trim Finish

BK	Black Alzak
WH	White Powder Coat
CA	Clear Alzak
PT	Custom Color (Specify)

Ordering Example

CED3P20-50-CA

3 Light Combo Edge Accent/Downlight for PAR20 lamp, 50 watts max., Clear Alzak trim

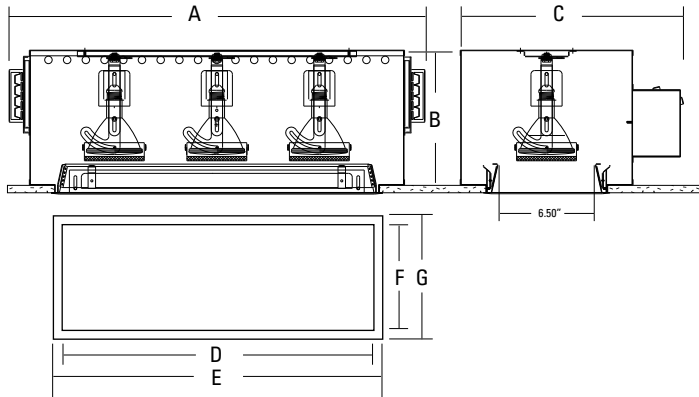
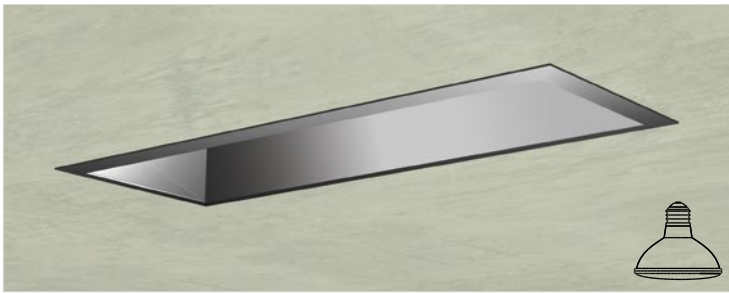
Options

Optical accessories include: Baffles, Snoots, Louvers and Lenses. See page 33 for details.

Features

- Available in 1, 2 or 3 light fixtures
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured for line voltage connection
- Electrical J-Box easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations

COMBO EDGE - ACCENT/DOWNLIGHT - 120V PAR30



3 light fixture shown above
Also available in 1 light and 2 light fixtures

HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	14.36"	9.00"	14.72"	8.074" x 8.18"
2 Light	21.21"	9.00"	14.72"	14.92" x 8.18"
3 Light	28.06"	9.00"	14.72"	21.72" x 8.18"

TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	7.37"	8.47"	7.37"	8.47"
2 Light	14.22"	15.32"	7.37"	8.47"
3 Light	21.07"	22.17"	7.37"	8.47"

TRIM INSERT FINISHES

Black Powder Coat



White Powder Coat



Clear Alzak



COMBO EDGE - ACCENT/DOWNLIGHT

Fixture Type

CED1P30	(1) One Light 120V PAR30
CED2P30	(2) Two Light 120V PAR30
CED3P30	(3) Three Light 120V PAR30

Wattage

75	75 watts max. 120V PAR30
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Trim Finish

BK	Black Alzak
WH	White Powder Coat
CA	Clear Alzak
PT	Custom Color (Specify)

Ordering Example

CED3P30-75-CA

3 Light Combo Edge Accent/Downlight for PAR30 lamp, 75 watts max., Clear Alzak trim

Options

Optical accessories include: Baffles, Snoots, Louvers and Lenses. See page 33 for details.

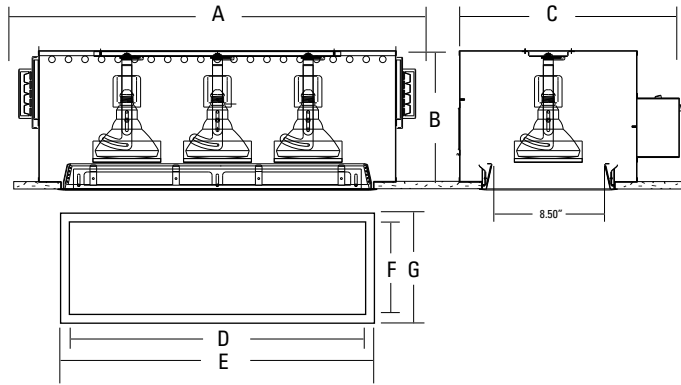
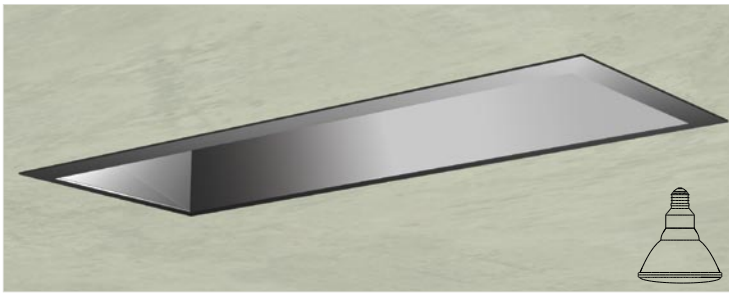
Features

- Available in 1, 2 or 3 light fixtures
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured for line voltage connection
- Electrical J-Box easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations



COMBO EDGE - ACCENT/DOWNLIGHT - 120V PAR38

COMBO EDGE - ACCENT/DOWNLIGHT - 120V PAR38



3 light fixture shown above
Also available in 1 light and 2 light fixtures

HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	16.54"	10.86"	16.72"	10.18" x 10.18"
2 Light	25.29"	10.86"	16.72"	18.93" x 10.18"
3 Light	34.04"	10.86"	16.72"	27.68" x 10.18"

TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	9.48"	10.58"	9.37"	10.47"
2 Light	18.23"	19.33"	9.37"	10.47"
3 Light	26.98"	28.08"	9.37"	10.47"

TRIM INSERT FINISHES

Black Powder Coat

White Powder Coat

Clear Alzak



COMBO EDGE - ACCENT/DOWNLIGHT

Fixture Type

CED1P38	(1) One Light 120V PAR38
CED2P38	(2) Two Light 120V PAR38
CED3P38	(3) Three Light 120V PAR38

Wattage

150	150 watts max. 120V PAR38
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Trim Finish

BK	Black Alzak
WH	White Powder Coat
CA	Clear Alzak
PT	Custom Color (Specify)

Ordering Example

CED3P38-150-CA

3 Light Combo Edge Accent/Downlight for PAR38 lamp, 150 watts max., Clear Alzak trim

Options

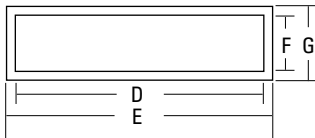
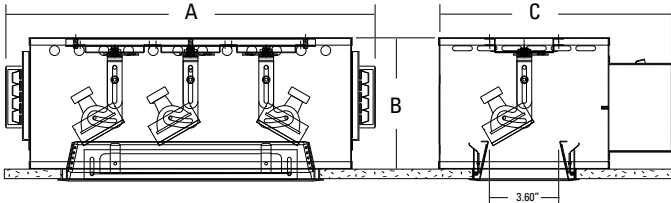
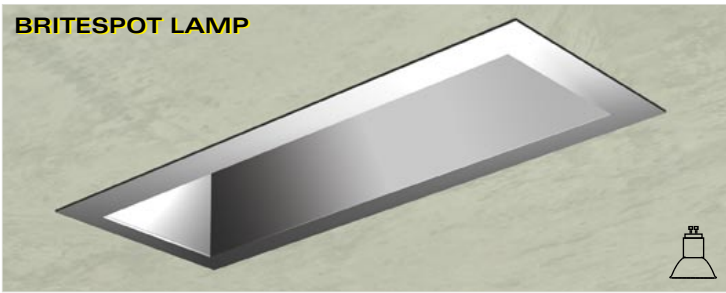
Optical accessories include: Baffles, Snoots, Louvers and Lenses. See page 33 for details.

Features

- Available in 1, 2 or 3 light fixtures
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured for line voltage connection
- Electrical J-Box easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations

COMBO EDGE - ACCENT/DOWNLIGHT - ES16 METAL HALIDE

COMBO EDGE - ACCENT/DOWNLIGHT - ES16MH



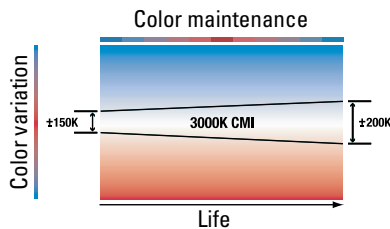
3 light fixture shown above
Also available in 1 light and 2 light fixtures

HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	11.66"	6.66"	11.84"	5.27" x 5.30"
2 Light	15.51"	6.66"	11.84"	9.30" x 5.30"
3 Light	19.36"	6.66"	11.84"	13.15" x 5.30"

TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	4.50"	5.60"	4.50"	5.60"
2 Light	8.52"	9.62"	4.50"	5.60"
3 Light	12.37"	13.47"	4.50"	5.60"



TRIM INSERT FINISHES

Black Powder Coat

White Powder Coat

Clear Alzak



COMBO EDGE - ACCENT/DOWNLIGHT

Fixture Type

CED1E16MH	(1) One Light ES16 Metal Halide
CED2E16MH	(2) Two Light ES16 Metal Halide
CED3E16MH	(3) Three Light ES16 Metal Halide

Wattage

20	20 Watt ES16 Metal Halide
39	39 Watt ES16 Metal Halide

Trim Finish

BK	Black Alzak
WH	White Powder Coat
CA	Clear Alzak
PT	Custom Color (Specify)

Voltage

120	120V (Standard)
277	277V

Ordering Example

CED3E16MH-39-CA-120

3 Light Combo Edge Accent/Downlight for ES16MH lamp, 39 watt, Clear Alzak trim, 120V

Options

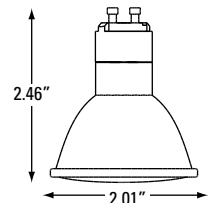
Optical accessories include: Baffles, Snoots, Louvers and Lenses. See page 33 for details.

Features

- Available in 1, 2 or 3 light fixtures
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured with integral electronic ballasts
- Electrical J-Box and ballasts easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations

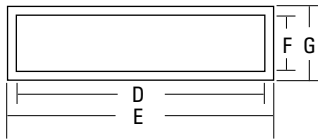
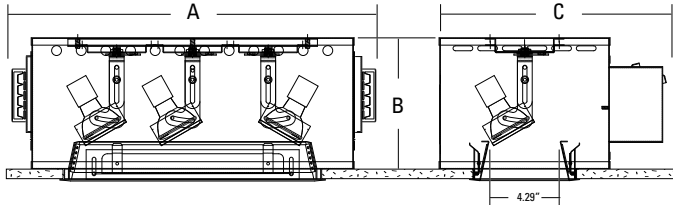
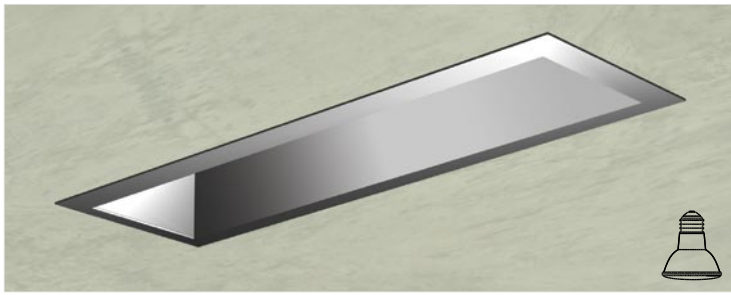
BriteSpot™ ES16 - the first metal halide lamp to bring together high-output, excellent light quality and superb energy-efficiency in one compact, highly distinctive package. The improved discharge arc of the BriteSpot™ ES16 offers excellent color stability and superb color rendering all within the footprint of an MR16.

Lamp Life: 6000 hours
Correlated Color Temp: 3000K
Color Rendering Index: 90
Reflector: Aluminum
Lens: Stippled
Ring: Anodized Aluminum



COMBO EDGE - ACCENT/DOWNLIGHT - PAR20 METAL HALIDE

COMBO EDGE - ACCENT/DOWNLIGHT - PAR20MH



3 light fixture shown above
Also available in 1 light and 2 light fixtures

HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	12.51"	8.25"	12.44"	6.10" x 5.97"
2 Light	19.36"	8.25"	12.44"	12.97" x 5.97"
3 Light	26.21"	8.25"	12.44"	19.82" x 5.97"

TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	5.35"	6.45"	5.16"	6.26"
2 Light	12.20"	13.30"	5.16"	6.26"
3 Light	19.05"	20.15"	5.16"	6.26"

COMBO EDGE - ACCENT/DOWNLIGHT

Fixture Type

CED1P20MH	(1) One Light PAR20 Metal Halide
CED2P20MH	(2) Two Light PAR20 Metal Halide
CED3P20MH	(3) Three Light PAR20 Metal Halide

Wattage

20	20 Watt PAR20 Metal Halide
39	39 Watt PAR20 Metal Halide

Trim Finish

BK	Black Alzak
WH	White Powder Coat
CA	Clear Alzak
PT	Custom Color (Specify)

Voltage

120	120V (Standard)
277	277V

Ordering Example

CED3P20MH-39-CA-120

3 Light Combo Edge Accent/Downlight for PAR20MH lamp, 39 watt, Clear Alzak trim, 120V

Options

Optical accessories include: Baffles, Snoots, Louvers and Lenses. See page 33 for details.

Features

- Available in 1, 2 or 3 light fixtures
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured with integral electronic ballasts
- Electrical J-Box and ballasts easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations

TRIM INSERT FINISHES

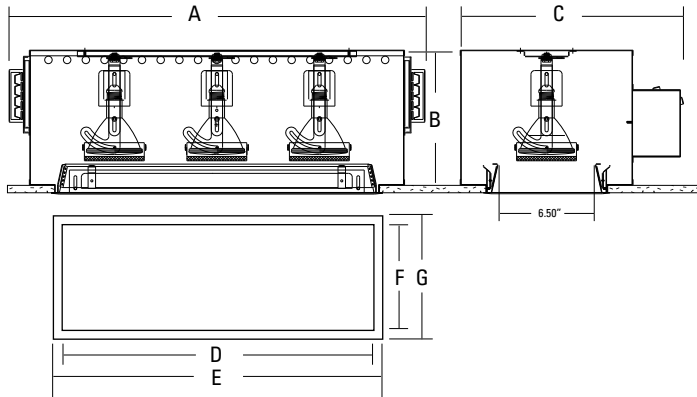
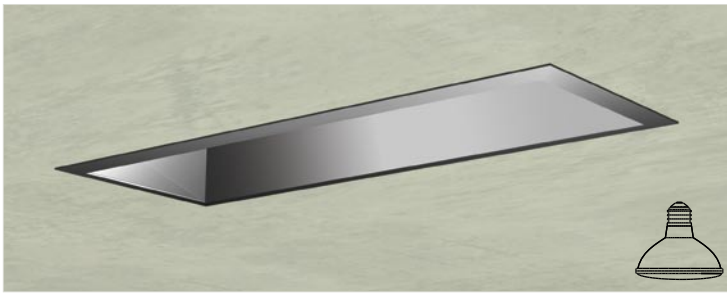
Black Powder Coat

White Powder Coat

Clear Alzak



COMBO EDGE - ACCENT/DOWNLIGHT - PAR30 METAL HALIDE



3 light fixture shown above
Also available in 1 light and 2 light fixtures

HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	14.36"	9.00"	14.72"	8.074" x 8.18"
2 Light	21.21"	9.00"	14.72"	14.92" x 8.18"
3 Light	28.06"	9.00"	14.72"	21.72" x 8.18"

TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	7.37"	8.47"	7.37"	8.47"
2 Light	14.22"	15.32"	7.37"	8.47"
3 Light	21.07"	22.17"	7.37"	8.47"

TRIM INSERT FINISHES

Black Powder Coat

White Powder Coat

Clear Alzak



COMBO EDGE - ACCENT/DOWNLIGHT

Fixture Type

CE1P30MH	(1) One Light PAR30 Metal Halide
CE2P30MH	(2) Two Light PAR30 Metal Halide
CE3P30MH	(3) Three Light PAR30 Metal Halide

Wattage

39	39 watt PAR30 Metal Halide
70	70 watt PAR30 Metal Halide

Trim Finish

BK	Black Alzak
WH	White Powder Coat
CA	Clear Alzak
PT	Custom Color (Specify)

Voltage

120	120V (Standard)
277	277V

Ordering Example

CE3P30MH-70-CA-120

3 Light Combo Edge Accent/Downlight for PAR30MH lamp, 70 watt lamps., Clear Alzak trim, 120V

Options

Optical accessories include: Baffles, Snoots, Louvers and Lenses. See page 33 for details.

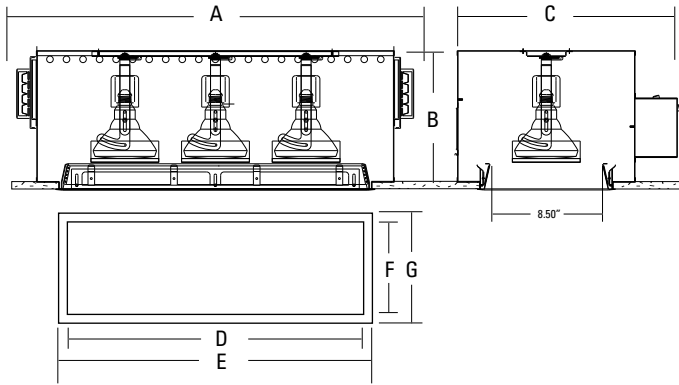
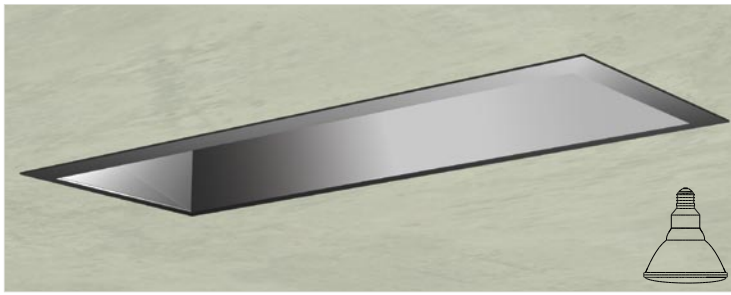
Features

- Available in 1, 2 or 3 light fixtures
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured with integral electronic ballasts
- Electrical J-Box and ballasts easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations



COMBO EDGE - ACCENT/DOWNLIGHT - PAR38 METAL HALIDE

COMBO EDGE - ACCENT/DOWNLIGHT - PAR38MH



3 light fixture shown above
Also available in 1 light and 2 light fixtures

HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	16.54"	10.86"	16.72"	10.18" x 10.18"
2 Light	25.29"	10.86"	16.72"	18.93" x 10.18"
3 Light	34.04"	10.86"	16.72"	27.68" x 10.18"

TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	9.48"	10.58"	9.37"	10.47"
2 Light	18.23"	19.33"	9.37"	10.47"
3 Light	26.98"	28.08"	9.37"	10.47"

COMBO EDGE - ACCENT/DOWNLIGHT

Fixture Type

CED1P38MH	(1) One Light PAR38 Metal Halide
CED2P38MH	(2) Two Light PAR38 Metal Halide
CED3P38MH	(3) Three Light PAR38 Metal Halide

Wattage

70	70 watt PAR38 Metal Halide
100	100 watt PAR38 Metal Halide

Trim Finish

BK	Black Alzak
WH	White Powder Coat
CA	Clear Alzak
PT	Custom Color (Specify)

Voltage

120	120V (Standard)
277	277V

Ordering Example

CED3P38MH-100-CA-120

3 Light Combo Edge Accent/Downlight for PAR38MH lamp, 100 watt lamps, Clear Alzak trim. 120V

Options

Optical accessories include: Baffles, Snoots, Louvers and Lenses. See page 33 for details.

Features

- Available in 1, 2 or 3 light fixtures
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured with integral electronic ballasts
- Electrical J-Box and ballasts easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations

TRIM INSERT FINISHES

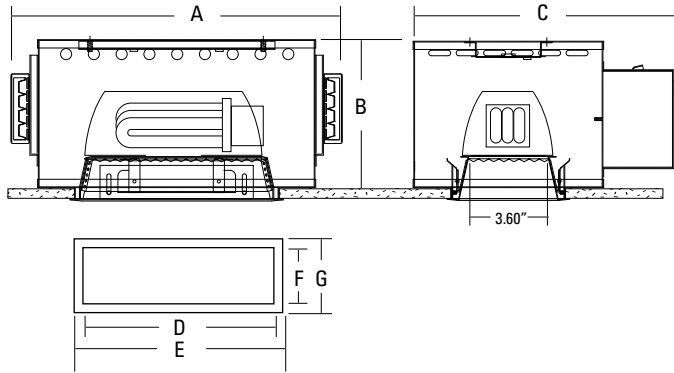
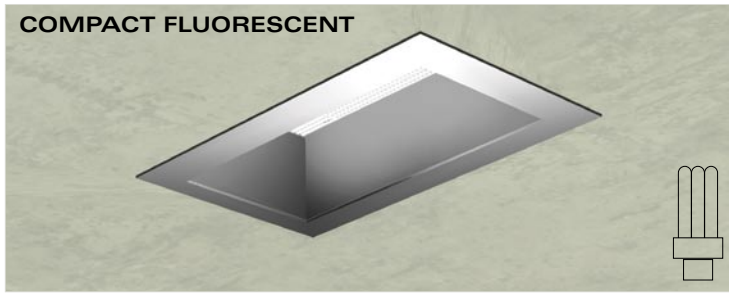
Black Powder Coat

White Powder Coat

Clear Alzak



COMBO EDGE - DOWNLIGHT - TRIPLE TUBE



1 light fixture shown above
Also available in 2 light fixtures

HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	15.51"	6.66"	11.84"	9.30" x 5.30"
2 Light	19.36"	6.66"	11.84"	13.15" x 5.30"

TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	8.52"	9.62"	4.50"	5.60"
2 Light	12.37"	13.47"	4.50"	5.60"

TRIM INSERT FINISHES

Black Powder Coat

White Powder Coat

Clear Alzak



COMBO EDGE - DOWNLIGHT

Fixture Type

CED1TTB	(1) One Light Triple Tube Fluorescent
CED2TTB	(2) Two Light Triple Tube Fluorescent

Wattage

26	26 Watt Triple Tube Fluorescent
32	32 Watt Triple Tube Fluorescent
42	42 Watt Triple Tube Fluorescent

Trim Finish

BK	Black Alzak
WH	White Powder Coat
CA	Clear Alzak
PT	Custom Color (Specify)

Voltage

120	120V (Standard)
277	277V

Ordering Example

CED1TTB-32-CA-120

1 Light Combo Edge Downlight for Triple Tube Compact Fluorescent lamp, 32 watt, Clear Alzak trim, 120V


Features

- Available in 1 or 2 light fixtures
- Compact fluorescent triple tube lamp source
- Includes internal reflector and prismatic spread lens for even illumination
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Electrical J-Box and ballasts easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations



COMBO EDGE - DOWNLIGHT - TRIPLE TUBE

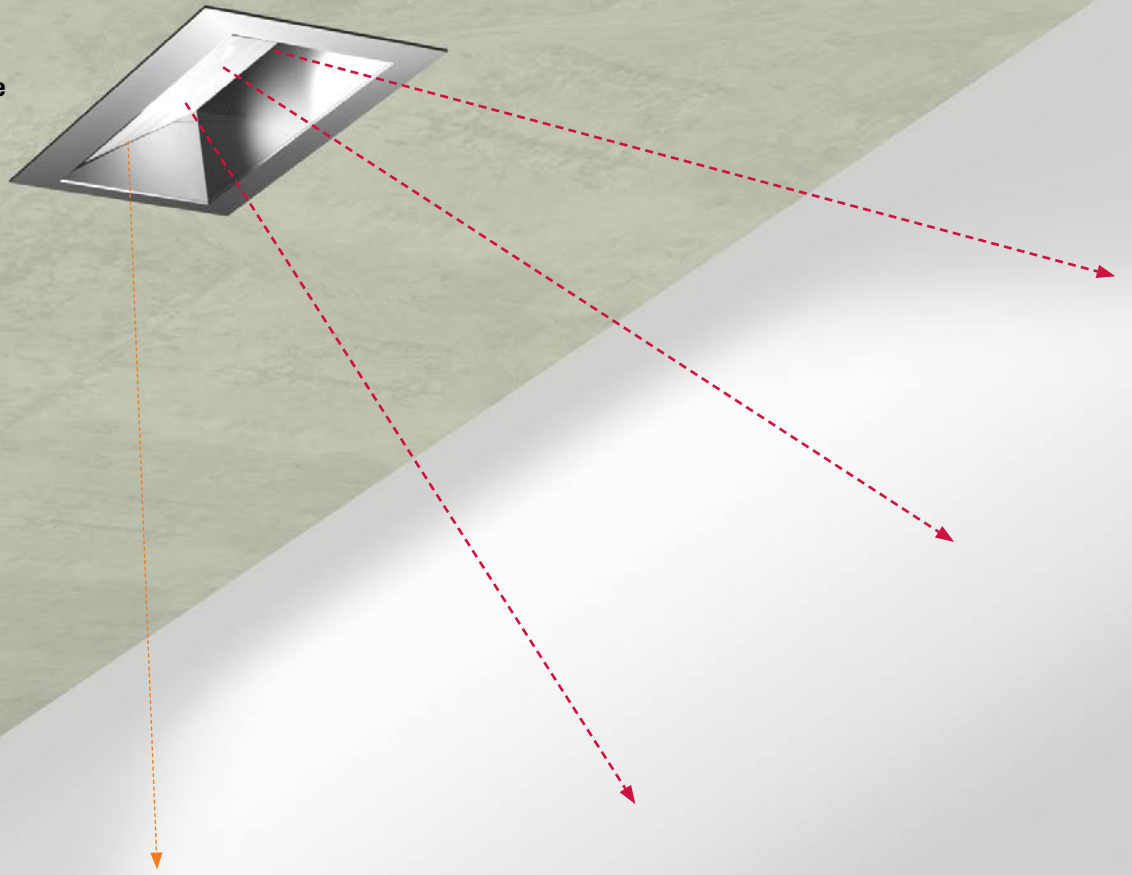




COMBO EDGE provides a wealth of lighting design possibilities. In this application, PAR38 Metal Halide accent / downlights are used for general illumination and task lighting. ES16 Britespot Metal Halide wall wash fixtures provide a smooth and even light across the back and side walls. All of this is achieved without harsh glare from the fixtures themselves due to the deep regress of the trim insert.

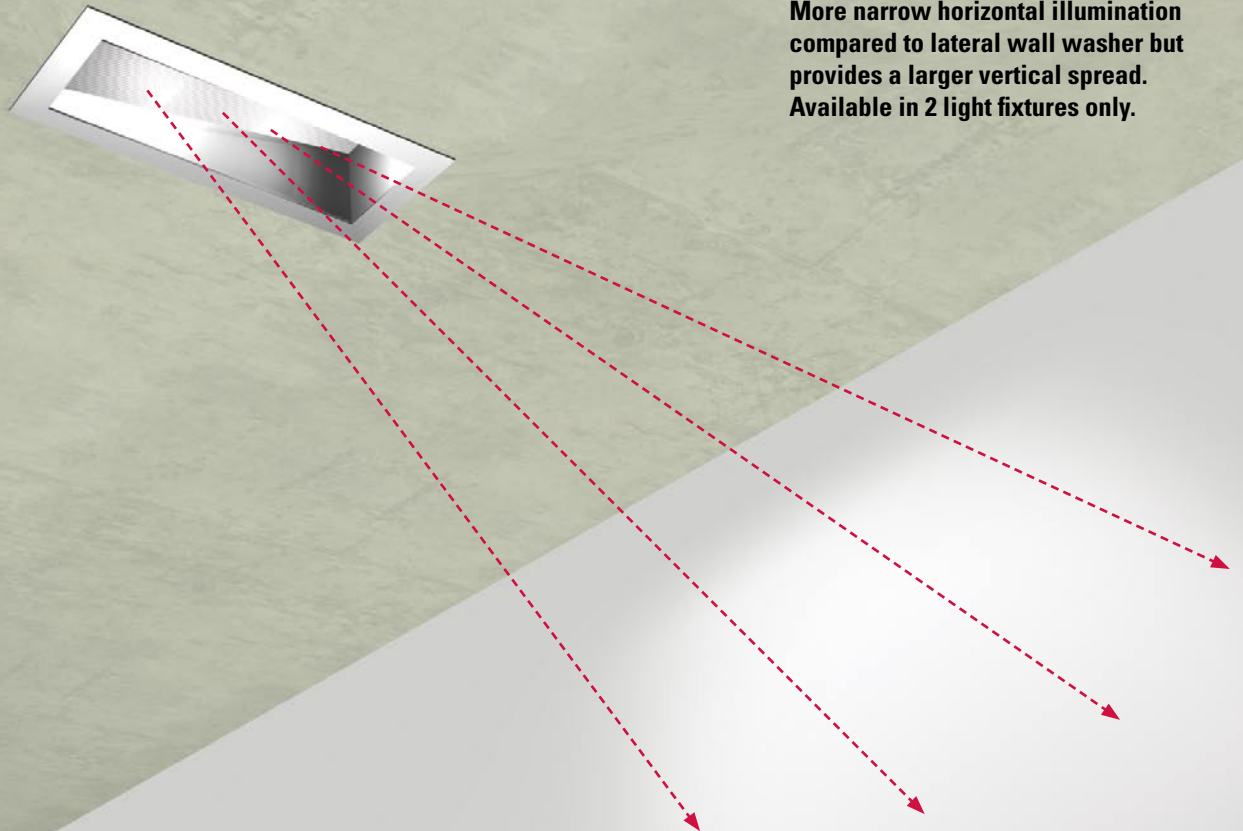
Lateral Wall Washer

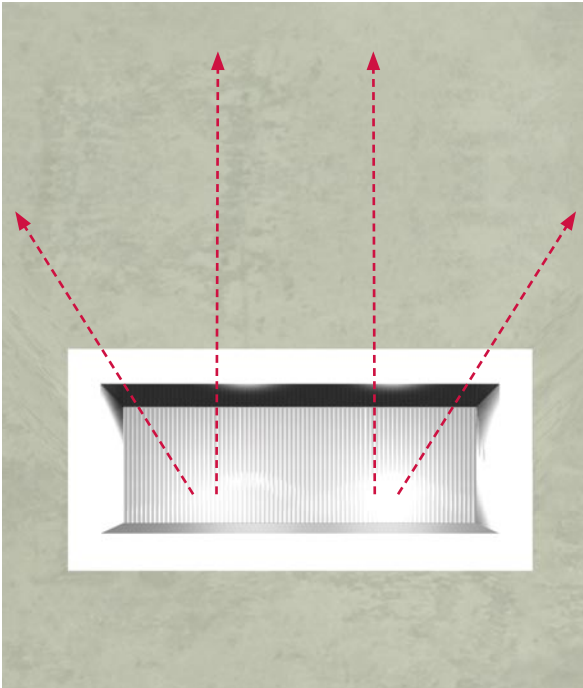
Spreads light over a wider area with even illumination. Available in 1, 2 or 3 light fixtures.



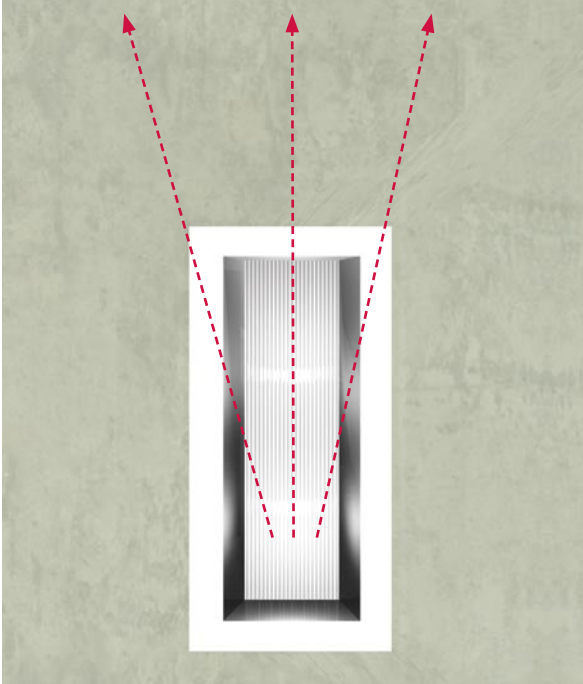
Transverse Wall Washer

More narrow horizontal illumination compared to lateral wall washer but provides a larger vertical spread. Available in 2 light fixtures only.





Lateral Configuration



Transverse Configuration

Wall Washer Fixture Lamp Types

MR16 12 Volt Halogen page 22

AR70 12 Volt Halogen page 23

PAR16 120 Volt Incandescent page 24

PAR20 120 Volt Incandescent page 25

PAR30 120 Volt Incandescent page 26

PAR38 120 Volt Incandescent page 27

ES16 BriteSpot Metal Halide page 28

PAR20 Metal Halide page 29

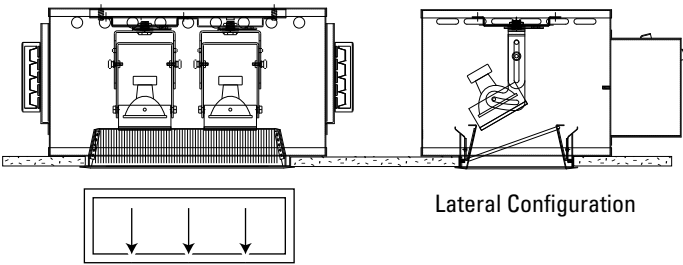
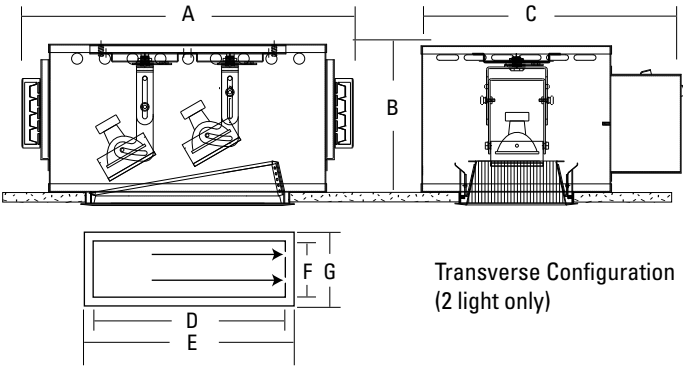
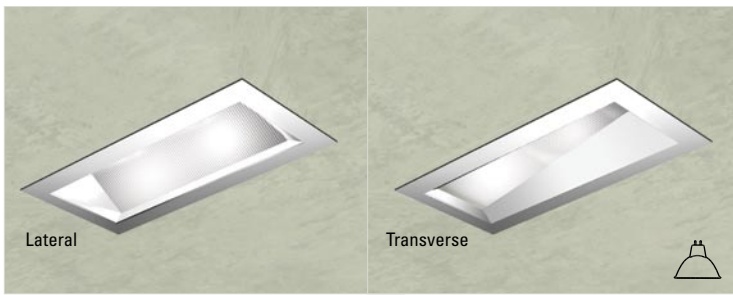
PAR30 Metal Halide page 30

PAR38 Metal Halide page 31

Triple Tube Fluorescent page 32

COMBO EDGE - WALL WASHER - 12V MR16

COMBO EDGE - WALL WASHER - 12V MR16



2 light fixture shown above
Also available in 1 light and 3 light fixtures

HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	11.66"	6.66"	11.84"	5.27" x 5.30"
2 Light	15.51"	6.66"	11.84"	9.30" x 5.30"
3 Light	19.36"	6.66"	11.84"	13.15" x 5.30"

TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	4.50"	5.60"	4.50"	5.60"
2 Light	8.52"	9.62"	4.50"	5.60"
3 Light	12.37"	13.47"	4.50"	5.60"

TRIM INSERT FINISHES

Black Powder Coat

White Powder Coat

Clear Alzak



COMBO EDGE - WALL WASHER

Fixture Type

- CEL1M16** (1) One Light 12V MR16 - Lateral
- CEL2M16** (2) Two Light 12V MR16 - Lateral
- CEL3M16** (3) Three Light 12V MR16 - Lateral

- CET2M16** (2) Two Light 12V MR16 - Transverse

Wattage

- 20** 20 Watt 12V MR16
- 37** 37 Watt 12V MR16
- 42** 42 Watt 12V MR16
- 50** 50 Watt 12V MR16
- 71** 71 Watt 12V MR16

Trim Finish

- BK** Black Alzak
- WH** White Powder Coat
- CA** Clear Alzak
- PT** Custom Color (Specify)

Voltage

- 120** 120V (Standard)
- 277** 277V

Emergency Lighting

- EM** Relay Emergency Module (see page 33)

Ordering Example

CET2M16-37-CA-120

2 Light Combo Edge Wall Wash Transverse Configuration for MR16 lamp, 37 watt, Clear Alzak trim, 120V

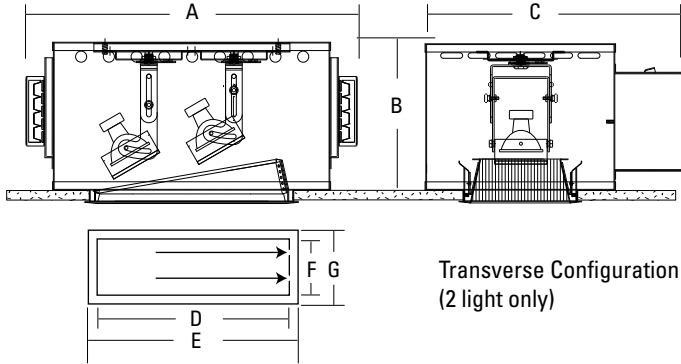
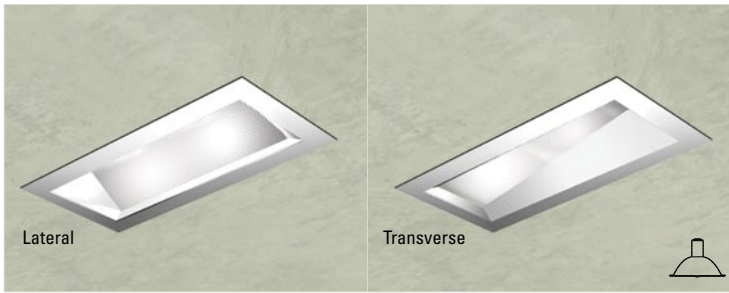
Includes linear spread lens.

Features

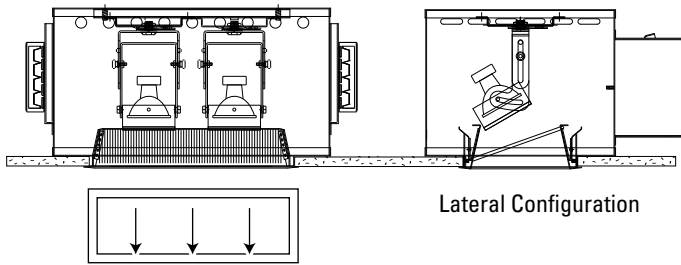
- Available in 1, 2 or 3 light fixtures (Transverse 2 light only)
- Includes linear spread lens
- Lateral or Transverse configurations for added versatility
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured with integral electronic transformers
- Electrical J-Box and transformers easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations
- Optional Relay Emergency Module (see page 33 for details)

COMBO EDGE - WALL WASHER - 12V AR70 LAMP

COMBO EDGE - WALL WASHER - 12V AR70



Transverse Configuration
(2 light only)



Lateral Configuration

2 light fixture shown above
Also available in 1 light and 3 light fixtures

HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	11.66"	6.66"	11.84"	5.27" x 5.30"
2 Light	15.51"	6.66"	11.84"	9.30" x 5.30"
3 Light	19.36"	6.66"	11.84"	13.15" x 5.30"

TRIM DIMENSIONS

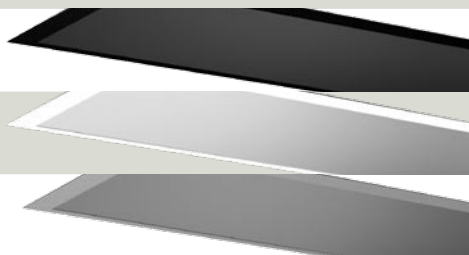
FIXTURE TYPE	D	E	F	G
1 Light	4.50"	5.60"	4.50"	5.60"
2 Light	8.52"	9.62"	4.50"	5.60"
3 Light	12.37"	13.47"	4.50"	5.60"

TRIM INSERT FINISHES

Black Powder Coat

White Powder Coat

Clear Alzak



COMBO EDGE - WALL WASHER

Fixture Type

CEL1A70	(1) One Light 12V AR70 - Lateral
CEL2A70	(2) Two Light 12V AR70 - Lateral
CEL3A70	(3) Three Light 12V AR70 - Lateral

CET2A70	(2) Two Light 12V AR70 - Transverse
----------------	-------------------------------------

Wattage

20	20 Watt 12V AR70
50	50 Watt 12V AR70

Trim Finish

BK	Black Alzak
WH	White Powder Coat
CA	Clear Alzak
PT	Custom Color (Specify)

Voltage

120	120V (Standard)
277	277V

Emergency Lighting

EM	Relay Emergency Module (see page 33)
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Ordering Example

CEL2A70-20-CA-120

2 Light Combo Edge Wall Wash Lateral Configuration for AR70 lamp, 20 watt, Clear Alzak trim, 120V

Includes linear spread lens.

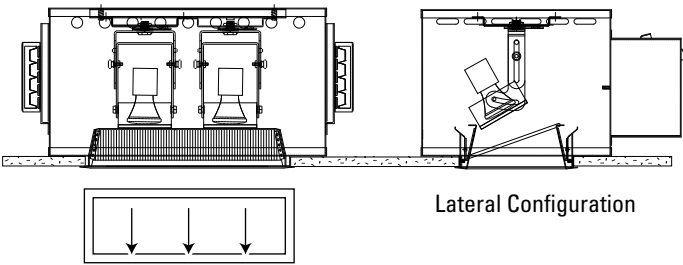
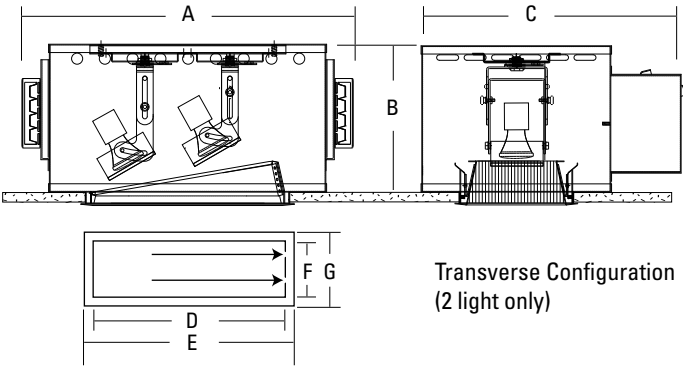
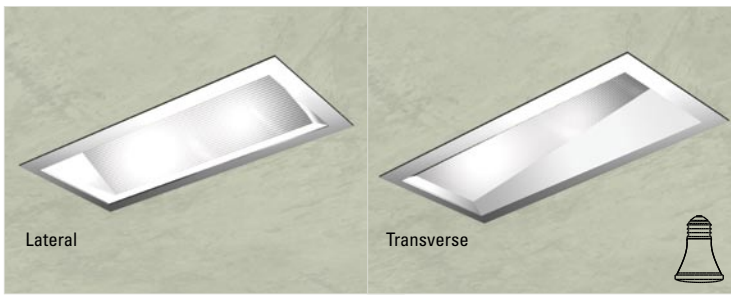
Features

- Available in 1, 2 or 3 light fixtures (Transverse 2 light only)
- Includes linear spread lens
- Lateral or Transverse configurations for added versatility
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured with integral electronic transformers
- Electrical J-Box and transformers easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations
- Optional Relay Emergency Module (see page 33 for details)



COMBO EDGE - WALL WASHER - 120V PAR16

COMBO EDGE - WALL WASHER - 120V PAR16



2 light fixture shown above
Also available in 1 light and 3 light fixtures

HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	12.51"	8.25"	12.44"	6.10" x 5.97"
2 Light	19.36"	8.25"	12.44"	12.97" x 5.97"
3 Light	26.21"	8.25"	12.44"	19.82" x 5.97"

TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	5.35"	6.45"	5.16"	6.26"
2 Light	12.20"	13.30"	5.16"	6.26"
3 Light	19.05"	20.15"	5.16"	6.26"

TRIM INSERT FINISHES

Black Powder Coat

White Powder Coat

Clear Alzak



COMBO EDGE - WALL WASHER

Fixture Type

CEL1P16	(1) One Light 120V PAR16 - Lateral
CEL2P16	(2) Two Light 120V PAR16 - Lateral
CEL3P16	(3) Three Light 120V PAR16 - Lateral

CET2P16	(2) Two Light 120V PAR16 - Transverse
----------------	---------------------------------------

Wattage

75	75 watts max 120V PAR16
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Trim Finish

BK	Black Alzak
WH	White Powder Coat
CA	Clear Alzak
PT	Custom Color (Specify)

Ordering Example

CET2P16-75-CA

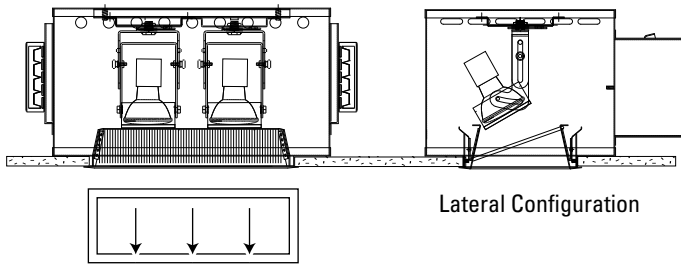
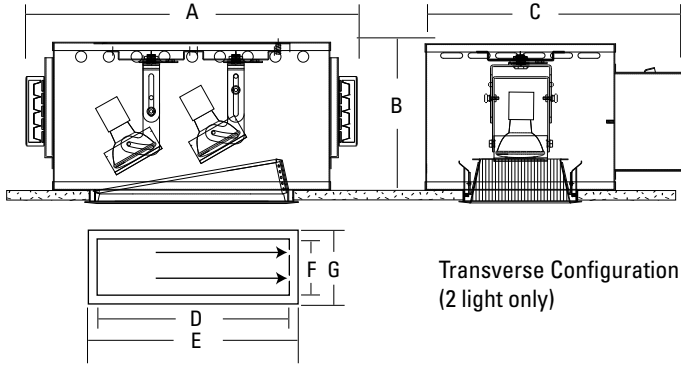
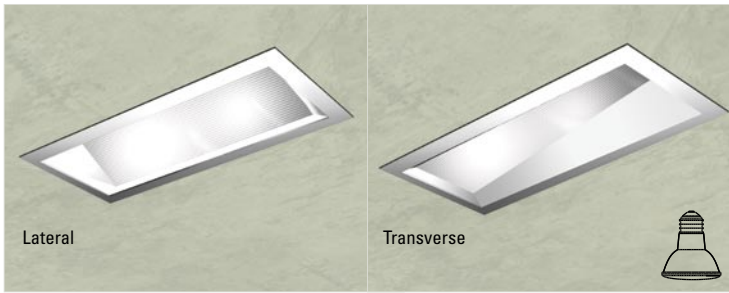
2 Light Combo Edge Wall Wash Transverse Configuration for PAR16 lamp, 75 watts max., Clear Alzak trim

Features

- Available in 1, 2 or 3 light fixtures (Transverse 2 light only)
- Includes linear spread lens
- Lateral or Transverse configurations for added versatility
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured for line voltage connection
- Electrical J-Box easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations

COMBO EDGE - WALL WASHER - 120V PAR20

COMBO EDGE - WALL WASHER - 120V PAR20



2 light fixture shown above
Also available in 1 light and 3 light fixtures

HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	12.51"	8.25"	12.44"	6.10" x 5.97"
2 Light	19.36"	8.25"	12.44"	12.97" x 5.97"
3 Light	26.21"	8.25"	12.44"	19.82" x 5.97"

TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	5.35"	6.45"	5.16"	6.26"
2 Light	12.20"	13.30"	5.16"	6.26"
3 Light	19.05"	20.15"	5.16"	6.26"

TRIM INSERT FINISHES

Black Powder Coat

White Powder Coat

Clear Alzak



COMBO EDGE - WALL WASHER

Fixture Type

- CEL1P20** (1) One Light 120V PAR20 - Lateral
- CEL2P20** (2) Two Light 120V PAR20 - Lateral
- CEL3P20** (3) Three Light 120V PAR20 - Lateral

- CET2P20** (2) Two Light 120V PAR20 - Transverse

Wattage

50 50 watts max 120V PAR20

Trim Finish

- BK** Black Alzak
- WH** White Powder Coat
- CA** Clear Alzak
- PT** Custom Color (Specify)

Ordering Example

CET2P20-50-CA

2 Light Combo Edge Wall Wash Transverse Configuration for PAR20 lamp, 50 watts max., Clear Alzak trim

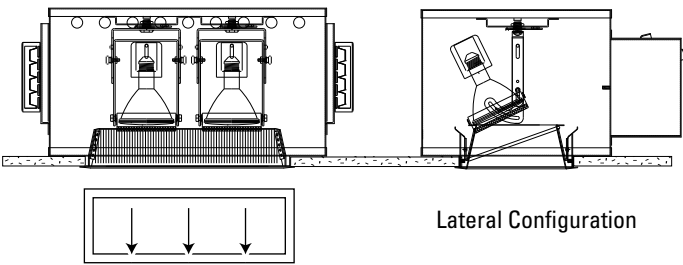
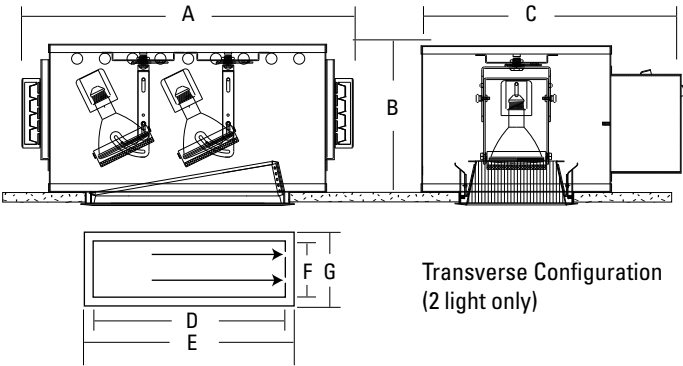
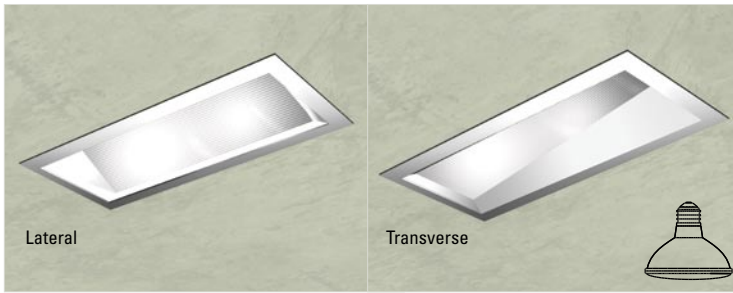
Features

- Available in 1, 2 or 3 light fixtures (Transverse 2 light only)
- Includes linear spread lens
- Lateral or Transverse configurations for added versatility
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured for line voltage connection
- Electrical J-Box easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations



COMBO EDGE - WALL WASHER - 120V PAR30

COMBO EDGE - WALL WASHER - 120V PAR30



2 light fixture shown above
Also available in 1 light and 3 light fixtures

HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	14.36"	9.00"	14.72"	8.074" x 8.18"
2 Light	21.21"	9.00"	14.72"	14.92" x 8.18"
3 Light	28.06"	9.00"	14.72"	21.72" x 8.18"

TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	7.37"	8.47"	7.37"	8.47"
2 Light	14.22"	15.32"	7.37"	8.47"
3 Light	21.07"	22.17"	7.37"	8.47"

TRIM INSERT FINISHES

Black Powder Coat

White Powder Coat

Clear Alzak



COMBO EDGE - WALL WASHER

Fixture Type

- CEL1P30** (1) One Light 120V PAR30 - Lateral
- CEL2P30** (2) Two Light 120V PAR30 - Lateral
- CEL3P30** (3) Three Light 120V PAR30 - Lateral

- CET2P30** (2) Two Light 120V PAR30 - Transverse

Wattage

75 75 watts max 120V PAR30

Trim Finish

- BK** Black Alzak
- WH** White Powder Coat
- CA** Clear Alzak
- PT** Custom Color (Specify)

Ordering Example

CET2P30-75-CA

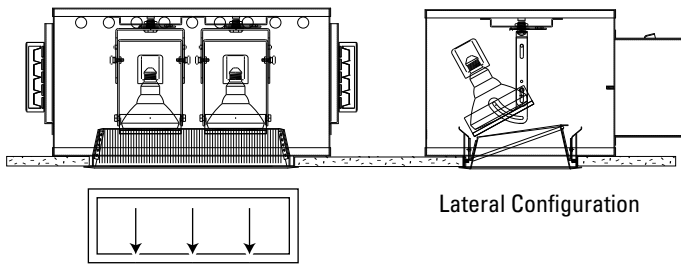
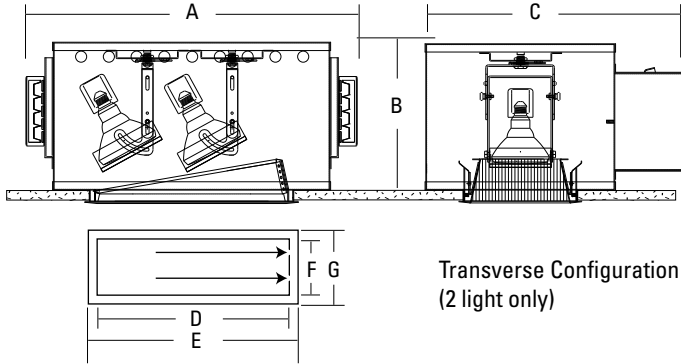
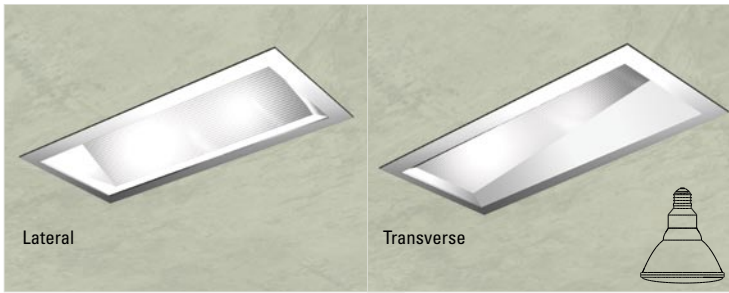
2 Light Combo Edge Wall Wash Transverse Configuration for PAR30 lamp, 75 watts max., Clear Alzak trim

Features

- Available in 1, 2 or 3 light fixtures (Transverse 2 light only)
- Includes linear spread lens
- Lateral or Transverse configurations for added versatility
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured for line voltage connection
- Electrical J-Box easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations

COMBO EDGE - WALL WASHER - 120V PAR38

COMBO EDGE - WALL WASHER - 120V PAR38



2 light fixture shown above
Also available in 1 light and 3 light fixtures

HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	16.54"	10.86"	16.72"	10.18" x 10.18"
2 Light	25.29"	10.86"	16.72"	18.93" x 10.18"
3 Light	34.04"	10.86"	16.72"	27.68" x 10.18"

TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	9.48"	10.58"	9.37"	10.47"
2 Light	18.23"	19.33"	9.37"	10.47"
3 Light	26.98"	28.08"	9.37"	10.47"

TRIM INSERT FINISHES

Black Powder Coat

White Powder Coat

Clear Alzak



COMBO EDGE - WALL WASHER

Fixture Type

- CEL1P38** (1) One Light 120V PAR38 - Lateral
- CEL2P38** (2) Two Light 120V PAR38 - Lateral
- CEL3P38** (3) Three Light 120V PAR38 - Lateral

- CET2P38** (2) Two Light 120V PAR38 - Transverse

Wattage

150 150 watts max 120V PAR38

Trim Finish

- BK** Black Alzak
- WH** White Powder Coat
- CA** Clear Alzak
- PT** Custom Color (Specify)

Ordering Example

CET2P38-150-CA

2 Light Combo Edge Wall Wash Transverse Configuration for PAR38 lamp, 150 watts max., Clear Alzak trim

Features

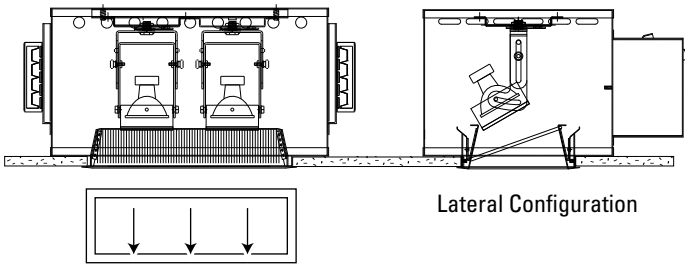
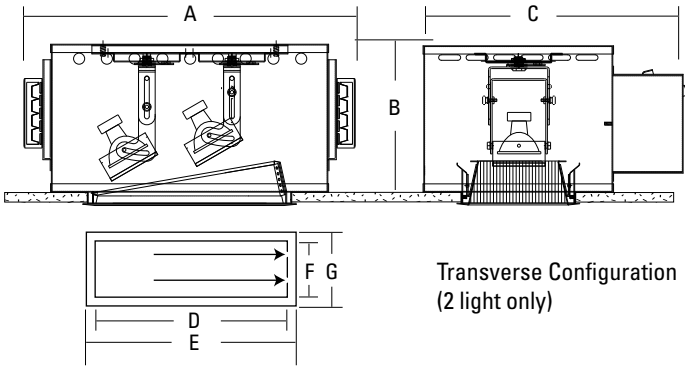
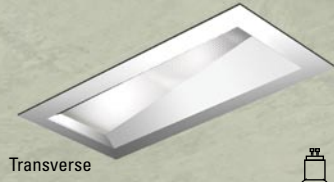
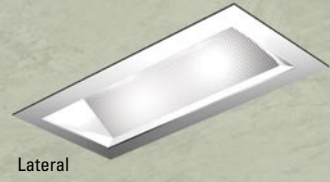
- Available in 1, 2 or 3 light fixtures (Transverse 2 light only)
- Includes linear spread lens
- Lateral or Transverse configurations for added versatility
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured for line voltage connection
- Electrical J-Box easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations



COMBO EDGE - WALL WASHER - ES16 METAL HALIDE

COMBO EDGE - WALL WASHER - ES16MH

BRITESPOT LAMP



2 light fixture shown above
Also available in 1 light and 3 light fixtures

HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	11.66"	6.66"	11.84"	5.27" x 5.30"
2 Light	15.51"	6.66"	11.84"	9.30" x 5.30"
3 Light	19.36"	6.66"	11.84"	13.15" x 5.30"

TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	4.50"	5.60"	4.50"	5.60"
2 Light	8.52"	9.62"	4.50"	5.60"
3 Light	12.37"	13.47"	4.50"	5.60"

TRIM INSERT FINISHES

Black Powder Coat

White Powder Coat

Clear Alzak



COMBO EDGE - WALL WASHER

Fixture Type

- CEL1E16MH** (1) One Light ES16 Metal Halide - Lateral
- CEL2E16MH** (2) Two Light ES16 Metal Halide - Lateral
- CEL3E16MH** (3) Three Light ES16 Metal Halide - Lateral

- CET2E16MH** (2) Two Light ES16 Metal Halide - Transverse

Wattage

- 20** 20 Watt ES16 Metal Halide
- 39** 39 Watt ES16 Metal Halide

Trim Finish

- BK** Black Alzak
- WH** White Powder Coat
- CA** Clear Alzak
- PT** Custom Color (Specify)

Voltage

- 120** 120V (Standard)
- 277** 277V

Ordering Example

CEL2E16MH-39-CA-120

2 Light Combo Edge Wall Wash Lateral Configuration for ES16MH lamp, 39 watt, Clear Alzak trim, 120V

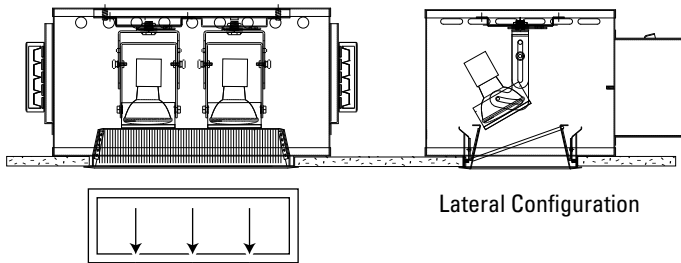
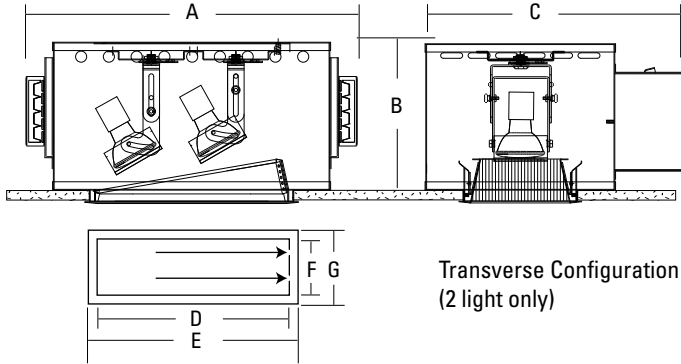
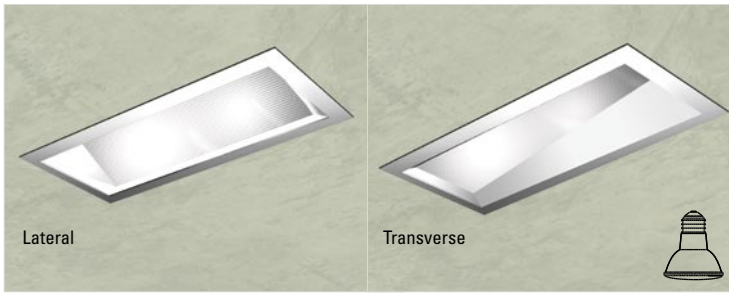
SEE PAGE 13 FOR IMPORTANT LAMP INFORMATION

Features

- Available in 1, 2 or 3 light fixtures (Transverse 2 light only)
- Includes linear spread lens
- Lateral or Transverse configurations for added versatility
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured with integral electronic ballasts
- Electrical J-Box and ballasts easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations

COMBO EDGE - WALL WASHER - PAR20 METAL HALIDE

COMBO EDGE - WALL WASHER - PAR20MH



2 light fixture shown above
Also available in 1 light and 3 light fixtures

HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	12.51"	8.25"	12.44"	6.10" x 5.97"
2 Light	19.36"	8.25"	12.44"	12.97" x 5.97"
3 Light	26.21"	8.25"	12.44"	19.82" x 5.97"

TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	5.35"	6.45"	5.16"	6.26"
2 Light	12.20"	13.30"	5.16"	6.26"
3 Light	19.05"	20.15"	5.16"	6.26"

TRIM INSERT FINISHES

Black Powder Coat

White Powder Coat

Clear Alzak



COMBO EDGE - WALL WASHER

Fixture Type

- CEL1P20MH** (1) One Light PAR20 Metal Halide - Lateral
- CEL2P20MH** (2) Two Light PAR20 Metal Halide - Lateral
- CEL3P20MH** (3) Three Light PAR20 Metal Halide - Lateral

- CET2P20MH** (2) Two Light PAR20 Metal Halide - Transverse

Wattage

- 20** 20 Watt PAR20 Metal Halide
- 39** 39 Watt PAR20 Metal Halide

Trim Finish

- BK** Black Alzak
- WH** White Powder Coat
- CA** Clear Alzak
- PT** Custom Color (Specify)

Voltage

- 120** 120V (Standard)
- 277** 277V

Ordering Example

CET2P20MH-39-CA-120

2 Light Combo Edge Wall Wash Transverse Configuration for PAR20MH lamp, 39 watt, Clear Alzak trim, 120V

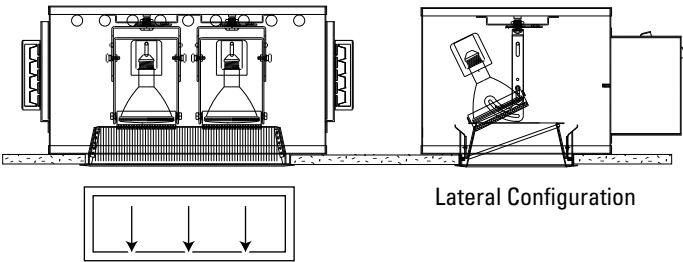
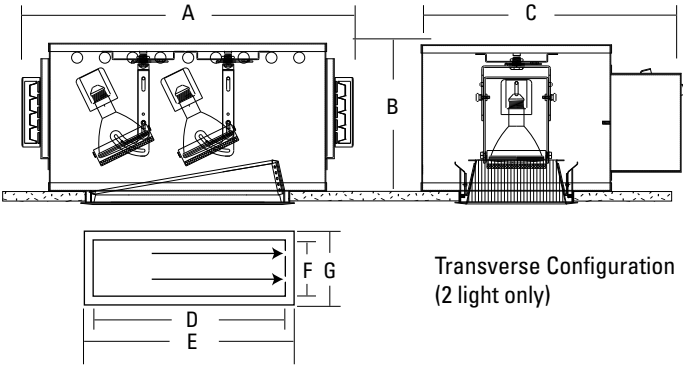
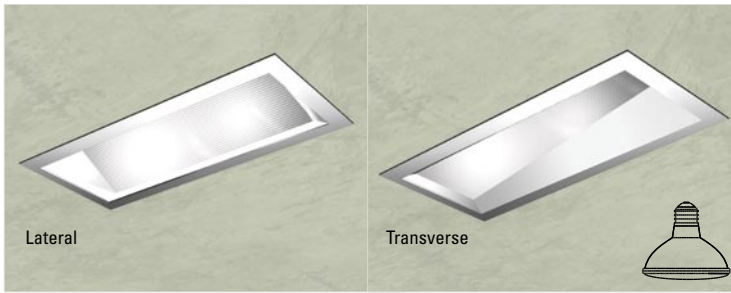
Features

- Available in 1, 2 or 3 light fixtures (Transverse 2 light only)
- Includes linear spread lens
- Lateral or Transverse configurations for added versatility
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured with integral electronic ballasts
- Electrical J-Box and ballasts easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations



COMBO EDGE - WALL WASHER - PAR30 METAL HALIDE

COMBO EDGE - WALL WASHER - PAR30MH



2 light fixture shown above
Also available in 1 light and 3 light fixtures

HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	14.36"	9.00"	14.72"	8.074" x 8.18"
2 Light	21.21"	9.00"	14.72"	14.92" x 8.18"
3 Light	28.06"	9.00"	14.72"	21.72" x 8.18"

TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	7.37"	8.47"	7.37"	8.47"
2 Light	14.22"	15.32"	7.37"	8.47"
3 Light	21.07"	22.17"	7.37"	8.47"

TRIM INSERT FINISHES

Black Powder Coat

White Powder Coat

Clear Alzak



COMBO EDGE - WALL WASHER

Fixture Type

- CEL1P30MH** (1) One Light PAR30 Metal Halide - Lateral
- CEL2P30MH** (2) Two Light PAR30 Metal Halide - Lateral
- CEL3P30MH** (3) Three Light PAR30 Metal Halide - Lateral

- CET2P30MH** (2) Two Light PAR30 Metal Halide - Transverse

Wattage

- 39** 39 Watt PAR30 Metal Halide
- 70** 70 Watt PAR30 Metal Halide

Trim Finish

- BK** Black Alzak
- WH** White Powder Coat
- CA** Clear Alzak
- PT** Custom Color (Specify)

Voltage

- 120** 120V (Standard)
- 277** 277V

Ordering Example

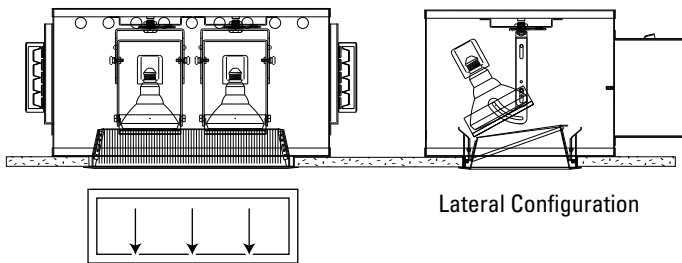
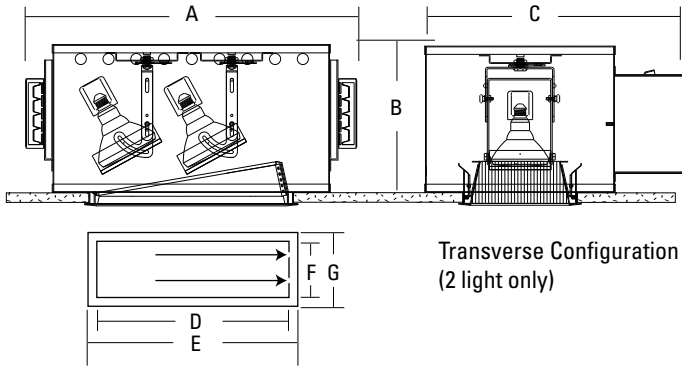
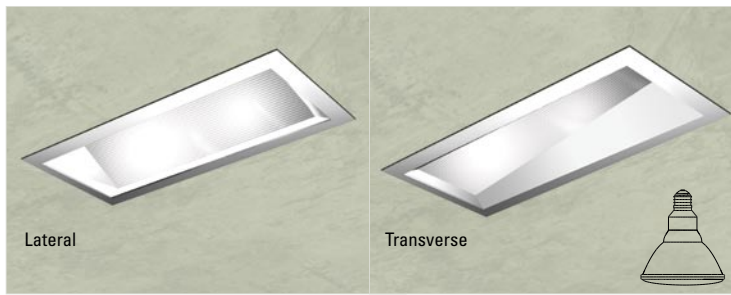
CEL2P30MH-39-CA-120

2 Light Combo Edge Wall Wash Lateral Configuration for PAR30MH lamp, 39 watt, Clear Alzak trim, 120V

Features

- Available in 1, 2 or 3 light fixtures (Transverse 2 light only)
- Includes linear spread lens
- Lateral or Transverse configurations for added versatility
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured with integral electronic ballasts
- Electrical J-Box and ballasts easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations

COMBO EDGE - WALL WASHER - PAR38 METAL HALIDE



2 light fixture shown above
Also available in 1 light and 3 light fixtures

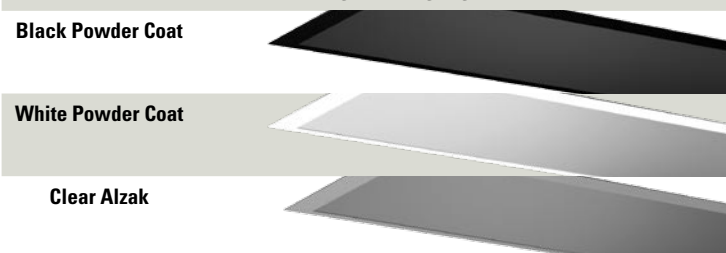
HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	16.54"	10.86"	16.72"	10.18" x 10.18"
2 Light	25.29"	10.86"	16.72"	18.93" x 10.18"
3 Light	34.04"	10.86"	16.72"	27.68" x 10.18"

TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	9.48"	10.58"	9.37"	10.47"
2 Light	18.23"	19.33"	9.37"	10.47"
3 Light	26.98"	28.08"	9.37"	10.47"

TRIM INSERT FINISHES



COMBO EDGE - WALL WASHER

Fixture Type

- CEL1P38MH** (1) One Light PAR38 Metal Halide - Lateral
- CEL2P38MH** (2) Two Light PAR38 Metal Halide - Lateral
- CEL3P38MH** (3) Three Light PAR38 Metal Halide - Lateral

- CET2P38MH** (2) Two Light PAR38 Metal Halide - Transverse

Wattage

- 70** 70 Watt PAR38 Metal Halide
- 100** 100 Watt PAR38 Metal Halide

Trim Finish

- BK** Black Alzak
- WH** White Powder Coat
- CA** Clear Alzak
- PT** Custom Color (Specify)

Voltage

- 120** 120V (Standard)
- 277** 277V

Ordering Example

CET2P38MH-70-CA-120

2 Light Combo Edge Wall Wash Transverse Configuration for PAR38MH lamp, 70 watt, Clear Alzak trim, 120V

Features

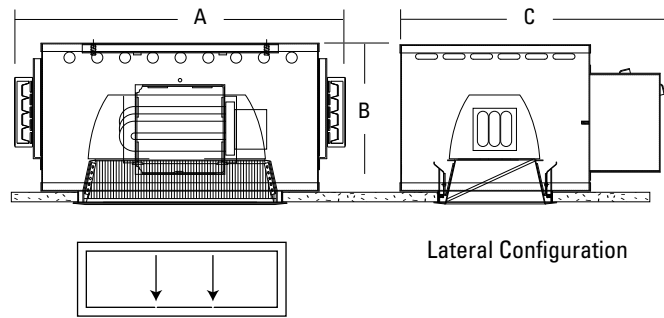
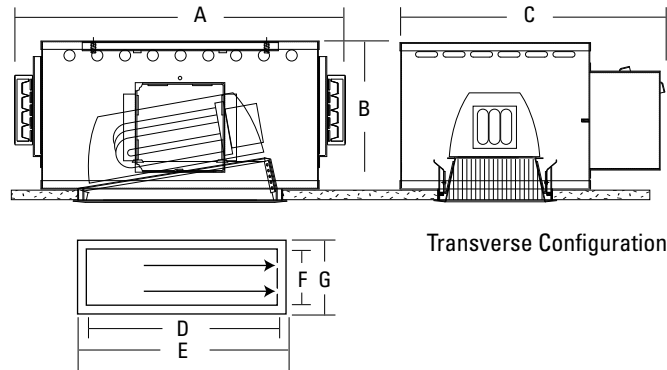
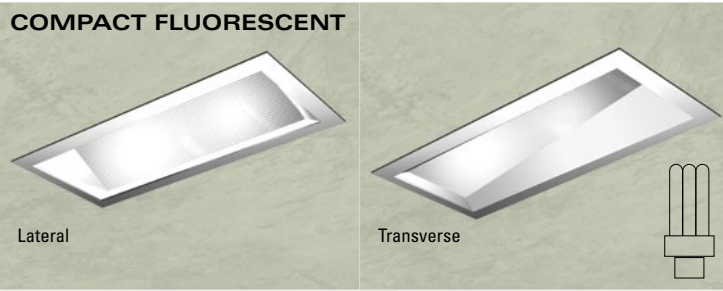
- Available in 1, 2 or 3 light fixtures (Transverse 2 light only)
- Includes linear spread lens
- Lateral or Transverse configurations for added versatility
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured with integral electronic ballasts
- Electrical J-Box and ballasts easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations



COMBO EDGE - WALL WASHER - PAR38MH

COMBO EDGE - WALL WASHER - TRIPLE TUBE FLUORESCENT

COMBO EDGE - WALL WASHER - TRIPLE TUBE



1 light fixture shown above
Also available in 2 light fixtures

HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	15.51"	6.66"	11.84"	9.30" x 5.30"
2 Light	19.36"	6.66"	11.84"	13.15" x 5.30"

TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	8.52"	9.62"	4.50"	5.60"
2 Light	12.37"	13.47"	4.50"	5.60"

TRIM INSERT FINISHES

Black Powder Coat

White Powder Coat

Clear Alzak

COMBO EDGE - WALL WASHER

Fixture Type

CEL1TTB	(1) One Light Triple Tube Fluorescent - Lateral
CET1TTB	(1) One Light Triple Tube Fluorescent - Transverse
CEL2TTB	(2) Two Light Triple Tube Fluorescent - Lateral
CET2TTB	(2) Two Light Triple Tube Fluorescent - Transverse

Wattage

26	26 Watt Triple Tube Fluorescent
32	32 Watt Triple Tube Fluorescent
42	42 Watt Triple Tube Fluorescent

Trim Finish

BK	Black Alzak
WH	White Powder Coat
CA	Clear Alzak
PT	Custom Color (Specify)

Voltage

120	120V (Standard)
277	277V

Ordering Example













CEL1TTB-32-CA-120

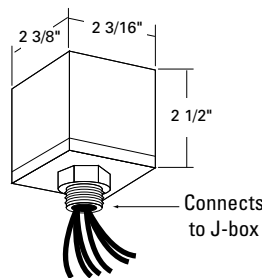
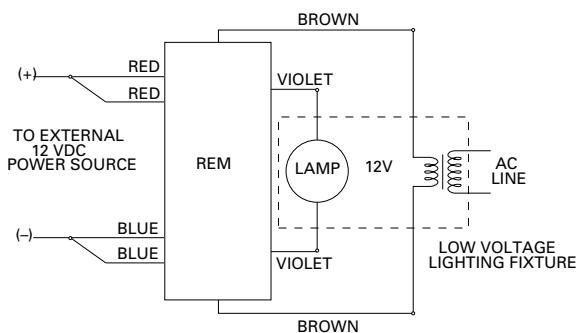
1 Light Combo Edge Wall Washer Lateral Configuration for Triple Tube Compact Fluorescent lamp, 32 watt, Clear Alzak trim, 120V

Features

- Available in 1 or 2 light fixtures
- Compact fluorescent triple tube lamp source
- Includes internal reflector and linear spread lens for even illumination
- Lateral or Transverse configurations for added versatility
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Electrical J-Box and ballasts easily accessed from below the ceiling
- Electronic ballast
- Includes butterfly brackets for black iron installations

OPTICAL ACCESSORY CROSS-REFERENCE TABLE

LAMP TYPE ↓ ACCESSORY TYPE	MR16 / PAR16 / ES16MH	AR70 / PAR20 / PAR20MH	AR111	PAR30 / PAR30MH	PAR38 / PAR38MH
 Optivex™ UV Filter	LN25	LN45	LN85	LN35	LN65
 Red Color Filter	LN26	LN46	LN86	LN36	LN66
 Blue Color Filter	LN27	LN47	LN87	LN37	LN67
 Amber Color Filter	LN29	LN49	LN89	LN39	LN69
 Cosmetic Peach 2800K Filter	CP16	CP20	CP111	CP30	CP38
 Milk White Lens	LN24	LN44	LN84	LN34	LN64
 Diffusion Spread Lens	LN21	LN41	LN81	LN31	LN61
 Linear Spread Lens	LN23	LN43	LN83	LN33	LN63
 Prismatic Spread Lens	LN22	LN42	LN82	LN32	LN62
 Hex Cell Louver	LN20	LN40	LN80	LN30	LN60
 Snoot	SN16WH - White SN16BK - Black SN16AL - Aluminum	SN20WH - White SN20BK - Black SN20AL - Aluminum	N/A	SN30WH - White SN30BK - Black SN30AL - Aluminum	SN38WH - White SN38BK - Black SN38AL - Aluminum
 Cross Baffle	CB16WH - White CB16BK - Black CB16AL - Aluminum	CB20WH - White CB20BK - Black CB20AL - Aluminum	CB111WH - White CB111BK - Black CB111AL - Aluminum	CB30WH - White CB30BK - Black CB30AL - Aluminum	CB38WH - White CB38BK - Black CB38AL - Aluminum



“EM” TECHNICAL DATA

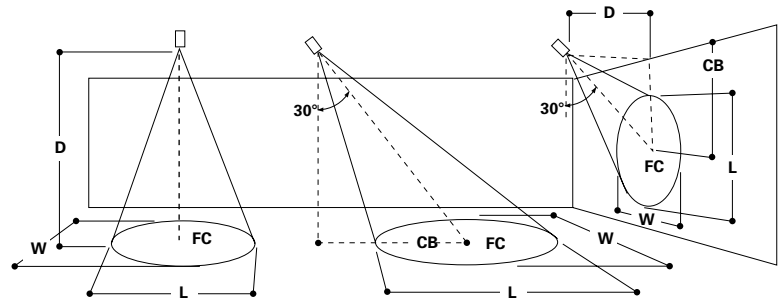
The optional Relay Emergency Module (EM) allows the conversion of one low voltage lamp in a fixture to function as a remote emergency unit when supplied by a 12V DC emergency power source. Module does not contain batteries. Will operate with 85W lamp maximum. Wattage consumed in emergency mode is lamp wattage + 0.9W.

12V MR16 LAMP PERFORMANCE DATA

Lamp Performance Data

D = Distance to the horizontal or vertical surface.
 FC = Initial footcandles at the center of the beam.
 L = Length of the beam where candlepower is reduced to 50% of center beam candlepower.
 W = Width of the beam where candlepower is reduced to 50% of center beam candlepower.
 CB = Distance to the center of the beam.





Lamp data given is typical and is based on bare lamp performance.
 Contact lamp manufacturers for availability and specific performance.
 Distance, length and width given in decimal feet.












		0° Aiming Angle Horizontal Footcandles				30° Aiming Angle Horizontal Footcandles					30° Aiming Angle Vertical Footcandles					45° Aiming Angle Vertical Footcandles					
		D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB	
MR16 12V Halogen 2-Pin GX5.3																					
	Q20 MR16 /C /VNSP7	GEL	6	215	0.7	0.7	6	140	0.8	0.7	3.5	2	243	0.9	0.5	3.5	3	304	0.7	0.4	3.
	Beam Spread = 7° x 7°		8	121	0.9	0.9	8	79	1.1	1.0	4.6	3	108	1.3	0.7	5.2	4	171	0.9	0.8	4.0
	CBCP = 7,400		10	77	1.1	1.1	10	50	1.2	1.2	5.8	4	61	1.8	0.9	6.9	5	110	1.2	1.0	5.0
	Rated Life = 3,000 Hrs.		12	54	1.3	1.3	12	35	1.4	1.4	6.9	5	39	2.2	1.2	8.7	6	76	1.4	1.2	6.0
	Q20 MR16 /C /NSP15	GEL	4	237	0.9	0.9	4	154	1.2	1.1	2.3	1.5	263	1.1	0.6	2.6	4	374	0.8	0.6	2.0
	Beam Spread = 15° x 15°		6	106	1.4	1.4	6	69	1.8	1.6	3.5	2.0	148	1.4	0.8	3.5	6	166	0.9	0.9	3.0
	CBCP = 3,750		8	59	1.8	1.8	8	39	2.4	2.2	4.6	2.5	95	1.8	0.9	4.3	8	94	1.2	1.2	4.0
	Rated Life = 5,000 Hrs.		10	38	2.3	2.3	10	25	3.0	2.7	5.8	3.0	66	2.1	1.1	5.2	10	60	1.5	1.5	5.0
	Q20 MR16 /C /FL40	GEL	1.5	222	1.0	1.0	1.5	163	1.1	1.1	0.9	1.0	135	0.9	0.9	1.7	1.0	254	0.8	1.0	1.0
	Beam Spread = 40° x 40°		2.0	125	1.3	1.3	2.0	92	1.4	1.4	1.2	1.5	60	1.4	1.3	2.6	1.5	113	1.1	1.5	1
	CBCP = 525		2.5	80	1.6	1.6	2.5	59	1.8	1.8	1.4	2.0	34	1.8	1.8	3.5	2.0	63	1.5	2.0	2.0
	Rated Life = 5,000 Hrs.		3.0	56	2.0	2.0	3.0	41	2.1	2.1	1.7	2.5	22	2.3	2.3	4.3	2.5	41	1.9	2.5	2.5
	Q35 MR16 /C /SP20	GEL	3	356	1.0	1.0	3	231	1.3	1.1	1.7	1.5	223	1.4	0.9	2.6	2	305	1.2	0.9	2.0
	Beam Spread = 20° x 20°		4	200	1.3	1.3	4	130	1.7	1.5	2.3	2.0	126	1.9	1.1	3.5	3	136	1.7	1.3	3.0
	CBCP = 3,200		5	128	1.6	1.6	5	83	2.1	1.9	2.9	2.5	80	2.4	1.4	4.3	4	76	2.3	1.8	4.0
	Rated Life = 5,000 Hrs.		6	89	1.9	1.9	6	58	2.6	2.2	3.5	3.0	56	2.8	1.7	5.2	5	49	2.9	2.2	5.0
	Q35 MR16 /C /FL40	GEL	2	262	1.2	1.2	2	204	1.3	1.2	1.2	1.0	253	0.9	0.8	1.7	1.5	235	1.2	1.0	1.5
	Beam Spread = 40° x 40°		3	116	1.8	1.8	3	91	2.0	1.8	1.7	1.5	112	1.4	1.2	2.6	2.0	132	1.5	1.3	2.0
	CBCP = 1,000		4	65	2.3	2.3	4	51	2.6	2.4	2.3	2.0	63	1.8	1.7	3.5	2.5	85	1.9	1.7	2.5
	Rated Life = 5,000 Hrs.		5	42	2.9	2.9	5	33	3.3	3.0	2.9	2.5	40	2.3	2.1	4.3	3.0	59	2.3	2.0	3.0
	Q42 MR16 /C /VNSP9	GEL	6	347	0.8	0.8	6	226	1.0	0.9	3.5	2	415	1.0	0.6	3.5	4	276	1.1	0.7	4.0
	Beam Spread = 9° x 9°		8	195	1.0	1.0	8	127	1.4	1.2	4.6	3	185	1.5	0.8	5.2	5	177	1.4	0.9	5.0
	CBCP = 12,500		10	125	1.3	1.3	10	81	1.7	1.4	5.8	4	104	2.0	1.1	6.9	6	123	1.7	1.1	6.0
	Rated Life = 3,500 Hrs.		12	87	1.5	1.5	12	56	2.1	1.7	6.9	5	66	2.6	1.4	8.7	7	90	2.0	1.3	7.0
	Q50 MR16 /C /NSP15	GEL	6	264	1.5	1.5	6	171	1.9	1.7	3.5	2	361	1.5	1.5	3.5	4	229	1.7	1.2	4.
	Beam Spread = 15° x 15°		8	148	1.9	1.9	8	96	2.5	2.2	4.6	3	160	2.3	2.3	5.2	5	147	2.1	1.6	5.0
	CBCP = 9,500		10	95	2.4	2.4	10	62	3.1	2.8	5.8	4	90	3.0	3.0	6.9	6	102	2.5	1.9	6.0
	Rated Life = 6,000 Hrs.		12	66	2.9	2.9	12	43	3.7	3.3	6.9	5	58	3.8	3.8	8.7	7	75	3.0	2.2	7.0
	Q50 MR16 /C /NFL25	GEL	3	322	1.2	1.2	3	212	1.6	1.4	1.7	1.5	220	1.7	1.1	2.6	2	282	1.4	1.1	2.0
	Beam Spread = 25° x 25°		4	181	1.7	1.7	4	119	2.1	1.9	2.3	2.0	124	2.2	1.4	3.5	3	125	2.2	1.7	3.0
	CBCP = 3,000		5	116	2.1	2.1	5	76	2.7	2.4	2.9	2.5	79	2.8	1.8	4.3	4	70	2.9	2.3	4.
	Rated Life = 6,000 Hrs.		6	81	2.5	2.5	6	53	3.2	2.9	3.5	3.0	55	3.3	2.2	5.2	5	45	3.6	2.8	5.0
	Q50 MR16 /C /FL40	GEL	3	213	2.0	2.0	3	181	2.1	2.0	1.7	1.5	259	1.1	1.3	2.6	2	274	1.3	1.5	2.0
	Beam Spread = 40° x 40°		4	120	2.7	2.7	4	102	2.8	2.7	2.3	2.0	146	1.5	1.7	3.5	3	122	2.0	2.3	3.
	CBCP = 1,700		5	77	3.4	3.4	5	65	3.5	3.4	2.9	2.5	93	1.9	2.2	4.3	4	68	2.6	3.0	4.0
	Rated Life = 6,000 Hrs.		6	53	4.0	4.0	6	45	4.2	4.1	3.5	3.0	65	2.3	2.6	5.2	5	44	3.3	3.8	5.0
	Q71 MR16 /C /NSP15	GEL	6	306	1.6	1.8	6	198	2.0	1.8	3.5	3	194	2.3	1.3	5.2	4	276	1.8	1.3	4.0
	Beam Spread = 15° x 15°		8	172	2.2	2.4	8	112	2.6	2.4	4.6	4	109	3.1	1.8	6.9	6	123	2.7	1.9	6.0
	CBCP = 11,000		10	110	2.7	3.0	10	71	3.3	3.0	5.8	5	70	3.9	2.2	8.7	8	69	3.6	2.6	8.0
	Rated Life = 4,000 Hrs.		12	76	3.2	3.6	12	50	3.9	3.6	6.9	6	48	4.7	2.7	10.4	10	44	4.5	3.2	10.0
	Q71 MR16 /C /NFL25	GEL	4	309	1.7	1.7	4	223	2.1	1.9	2.3	2	257	1.7	1.3	3.5	3	256	1.9	1.5	3.0
	Beam Spread = 25° x 25°		6	137	2.5	2.5	6	99	3.1	2.8	3.5	3	114	2.5	1.9	5.2	4	144	2.6	2.1	4.0
	CBCP = 4,950		8	77	3.4	3.4	8	56	4.1	3.7	4.6	4	64	3.4	2.6	6.9	5	92	3.2	2.6	5.0
	Rated Life = 4,000 Hrs.		10	49	4.2	4.2	10	36	5.2	4.6	5.8	5	41	4.2	3.2	8.7	6	64	3.9	3.1	6.0
	Q71 MR16 /C /FL40	GEL	3	236	2.1	2.1	3	200	2.2	2.1	1.7	1.5	286	1.2	1.3	2.6	2	301	1.4	1.5	2.0
	Beam Spread = 40° x 40°		4	133	2.8	2.8	4	112	2.9	2.8	2.3	2.0	161	1.6	1.8	3.5	3	134	2.2	2.3	3.0
	CBCP = 2,000		5	85	3.4	3.4	5	72	3.6	3.5	2.9	2.5	103	2.0	2.2	4.3	4	75	2.9	3.1	4.0
	Rated Life = 4,000 Hrs.		6	59	4.1	4.1	6	50	4.4	4.2	3.5	3.0	71	2.5	2.6	5.2	5	48	3.6	3.8	5.0

12V AR70, 12V AR111 LAMP PERFORMANCE DATA

AR70 12V Halogen DC Bayonet

	20 AR70 /SP8	OSI	6	214	1.1	1.1	5	231	1.0	1.0	2.9	3	214	2	1.1	5.2	4	241	1.0	1.0	4.0
	Beam Spread = 8° x 8°		8	120	1.4	1.4	7	118	1.5	1.4	4.0	4	120	2.5	1.4	6.9	5	154	1.6	1.2	5.0
	CBCP = 7,700		10	77	1.6	1.6	9	71	1.9	1.7	5.2	5	77	3.1	1.6	8.7	6	107	1.9	1.4	6.0
	Rated Life = 3,000 Hrs.		12	53	1.9	1.9	11	48	2.3	2.0	6.4	6	53	3.6	1.9	10.4	7	79	2.2	1.6	7.0
	20 AR70 /FL25	OSI	2	225	1.1	1.1	2	169	1.4	1.3	1.2	1	225	2.0	1.1	1.7	2	113	2.1	1.5	2.0
	Beam Spread = 25° x 25°		3	100	1.6	1.6	3	75	2.0	1.8	1.7	2	56	4.4	2.0	3.5	3	50	3.0	2.1	3.0
	CBCP = 900		4	56	2.0	2.0	4	42	2.6	2.3	2.3	3	25	6.5	2.9	5.2	4	28	4.0	2.7	4.0
	Rated Life = 3,000 Hrs.		5	36	2.5	2.5	5	27	3.2	2.8	2.9	4	14	8.6	3.8	6.9	5	18	4.9	3.4	5.0
	50 AR70 /SP8	OSI	7	255	1.2	1.2	6	260	1.4	1.2	3.5	4	195	2.5	1.4	6.9	5	250	1.6	1.2	5.0
	Beam Spread = 8° x 8°		9	154	1.5	1.5	8	146	1.7	1.5	4.6	5	125	3.1	1.6	8.7	7	128	2.2	1.6	7.0
	CBCP = 12,500		11	103	1.8	1.8	10	94	2.1	1.9	5.8	6	87	3.6	1.9	10.4	9	77	2.8	2.0	9.0
	Rated Life = 3,000 Hrs.		13	74	2.1	2.1	12	65	2.5	2.2	6.9	7	64	4.2	2.2	12.1	11	52	3.3	2.4	11.0
	50 AR70 /FL25	OSI	3	289	1.6	1.6	3	217	2.0	1.8	1.7	2	163	4.4	2.0	3.5	3	144	3.0	2.1	3.0
	Beam Spread = 25° x 25°		1	63	2.0	2.0	4	122	2.6	2.3	2.3	3	72	6.5	2.9	5.2	4	81	4.0	2.7	4.0
	CBCP = 2,600		5	104	2.5	2.5	5	78	3.2	2.8	2.9	4	41	8.6	3.8	6.9	5	52	4.9	3.4	5.0
	Rated Life = 3,000 Hrs.		6	72	2.9	2.9	6	54	3.8	3.3	3.5	5	26	10.6	4.7	8.7	6	36	5.8	4.0	6.0

AR111 12V Halogen G53

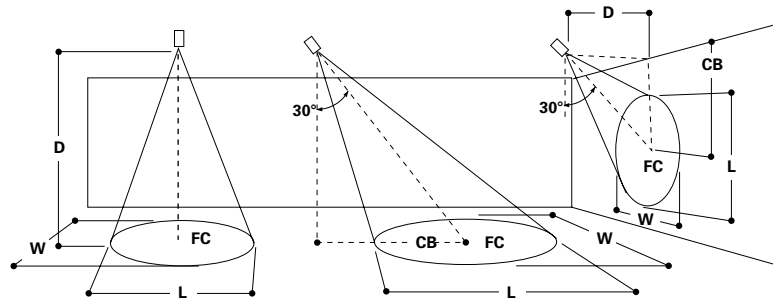
	35 AR111 /SSP4	OSI	13	266	1.3	1.3	12	234	1.5	1.3	6.9	6	313	2.0	1.2	10.4	9	278	1.6	1.3	9.0
	Beam Spread = 4° x 4°		18	139	1.6	1.6	16	132	1.9	1.7	9.2	9	139	2.9	1.6	15.6	13	133	2.2	1.6	13.0
	CBCP = 45,000		23	85	2.0	2.0	20	84	2.2	2.0	11.5	12	78	3.7	2.0	20.8	17	78	2.7	2.0	17.0
	Rated Life = 3,000 Hrs.		28	57	2.3	2.3	24	59	2.6	2.3	13.9	15	50	4.6	2.5	26.0	21	51	3.3	2.4	21.0
	35 AR111 /SP8	OSI	7	286	1.3	1.3	6	292	1.5	1.3	3.5	4	219	2.6	1.5	6.9	5	280	1.8	1.4	5.0
	Beam Spread = 8° x 8°		10	140	1.8	1.8	8	164	1.9	1.7	4.6	5	140	3.2	1.8	8.7	7	143	2.3	1.7	7.0
	CBCP = 14,000		13	83	2.2	2.2	10	105	2.2	2.0	5.8	6	97	3.8	2.0	10.4	9	86	2.9	2.1	9.0
	Rated Life = 3,000 Hrs.		16	55	2.6	2.6	12	73	2.6	2.3	6.9	7	71	4.3	2.3	12.1	11	58	3.5	2.5	11.0
	35 AR111 /FL25	OSI	3	278	1.7	1.7	3	208	2.2	1.9	1.7	2	156	4.5	2.1	3.5	3	139	3.2	2.2	3.0
	Beam Spread = 25° x 25°		4	156	2.1	2.1	4	117	2.8	2.4	2.3	3	69	6.6	3.0	5.2	4	78	4.1	2.9	4.0
	CBCP = 2,500		5	100	2.6	2.6	5	75	3.4	2.9	2.9	4	39	8.7	3.9	6.9	5	50	5.0	3.5	5.0
	Rated Life = 3,000 Hrs.		6	69	3.0	3.0	6	52	4.0	3.4	3.5	5	25	10.8	4.8	8.7	6	35	6.0	4.1	6.0
	50 AR111 /SSP4	OSI	12	347	1.4	1.4	12	260	1.6	1.5	6.9	7	255	2.5	1.5	12.1	8	391	1.6	1.3	8.0
	Beam Spread = 4° x 4°		18	154	1.8	1.8	16	146	2.0	1.8	9.2	9	154	3.0	1.8	15.6	12	174	2.2	1.7	12.0
	CBCP = 50,000		24	87	2.2	2.2	20	94	2.4	2.1	11.5	11	103	3.6	2.1	19.1	16	98	2.8	2.1	16.0
	Rated Life = 3,000 Hrs.		30	56	2.6	2.6	26	55	2.9	2.6	15.0	13	74	4.2	2.3	22.5	20	63	3.3	2.5	20.0
	50 AR111 /SP8	OSI	10	200	1.8	1.8	8	234	1.9	1.7	4.6	5	200	3.2	1.8	8.7	7	204	2.3	1.7	7.0
	Beam Spread = 8° x 8°		15	89	2.5	2.5	12	104	2.6	2.3	6.9	7	102	4.3	2.3	12.1	10	100	3.2	2.3	10.0
	CBCP = 20,000		20	50	3.2	3.2	14	77	3.0	2.6	8.1	9	62	5.5	2.9	15.6	13	59	4.0	2.9	13.0
	Rated Life = 3,000 Hrs.		25	32	3.9	3.9	16	59	3.4	2.9	9.2	11	41	6.6	3.4	19.1	16	39	4.9	3.5	16.0
	50 AR111 /FL25	OSI	4	219	2.1	2.1	3	292	2.2	1.9	1.7	2	219	4.5	2.1	3.5	3	194	3.2	2.2	3.0
	Beam Spread = 25° x 25°		5	140	2.6	2.6	4	164	2.8	2.4	2.3	3	97	6.6	3.0	5.2	4	109	4.1	2.9	4.0
	CBCP = 3,500		6	97	3.0	3.0	5	105	3.4	2.9	2.9	4	55	8.7	3.9	6.9	5	70	5.0	3.5	5.0
	Rated Life = 3,000 Hrs.		7	71	3.5	3.5	6	73	4.0	3.4	3.5	5	35	10.8	4.8	8.7	6	49	6.0	4.1	6.0
	75 AR111 /SP8	OSI	10	300	1.8	1.8	9	278	2.0	1.8	5.2	5	300	3.2	1.8	8.7	8	234	2.6	1.9	8.0
	Beam Spread = 8° x 8°		14	153	2.3	2.3	12	156	2.6	2.3	6.9	7	153	4.3	2.3	12.1	11	124	3.5	2.5	11.0
	CBCP = 30,000		18	93	2.9	2.9	15	100	3.2	2.8	8.7	9	93	5.5	2.9	15.6	14	77	4.3	3.1	14.0
	Rated Life = 3,000 Hrs.		22	62	3.4	3.4	18	69	3.7	3.3	10.4	11	62	6.6	3.4	19.1	17	52	5.1	3.7	17.0
	75 AR111 /FL25	OSI	5	212	2.6	2.6	4	248	2.8	2.4	2.3	3	147	6.6	3.0	5.2	3	294	3.2	2.2	3.0
	Beam Spread = 25° x 25°		6	147	3.0	3.0	5	159	3.4	2.9	2.9	4	83	8.7	3.9	6.9	4	166	4.1	2.9	4.0
	CBCP = 5,300		7	108	3.5	3.5	6	110	4.0	3.4	3.5	5	53	10.8	4.8	8.7	5	106	5.0	3.5	5.0
	Rated Life = 3,000 Hrs.		8	83	3.9	3.9	7	81	4.6	3.9	4.0	6	37	12.8	5.7	10.4	6	74	6.0	4.1	6.0
	75 AR111 /WFL45	OSI	3	189	2.8	2.8	3	142	3.9	3.2	1.7	2	106	14.0	3.7	3.5	2	213	4.4	2.7	2.0
	Beam Spread = 45° x 45°		4	106	3.7	3.7	4	80	5.1	4.2	2.3	3	47	20.8	5.3	5.2	3	94	6.4	3.9	3.0
	CBCP = 1,700		5	68	4.5	4.5	5	51	6.2	5.1	2.9	4	27	27.7	7.0	6.9	4	53	8.4	5.1	4.0
	Rated Life = 3,000 Hrs.		6	47	5.3	5.3	6	35	7.4	6.1	3.5	5	17	34.5	8.6	8.7	5	34	10.4	6.2	5.0

120V PAR16, 120V PAR20 LAMP PERFORMANCE DATA

Lamp Performance Data

D = Distance to the horizontal or vertical surface.
 FC = Initial footcandles at the center of the beam.
 L = Length of the beam where candlepower is reduced to 50% of center beam candlepower.
 W = Width of the beam where candlepower is reduced to 50% of center beam candlepower.
 CB = Distance to the center of the beam.







Lamp data given is typical and is based on bare lamp performance.
 Contact lamp manufacturers for availability and specific performance.
 Distance, length and width given in decimal feet.












	0° Aiming Angle Horizontal Footcandles				30° Aiming Angle Horizontal Footcandles				30° Aiming Angle Vertical Footcandles					45° Aiming Angle Vertical Footcandles							
	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB		
PAR16 Halogen E26 Medium Base																					
	60 PAR16 /CAP /NSP10	OSI	6	139	1.2	1.2	5	150	1.3	1.2	2.9	2	313	1.6	0.9	3.5	3	278	1.2	0.9	3.0
	Beam Spread = 10° x 10°		8	78	1.6	1.6	7	77	1.8	1.6	4.0	3	139	2.3	1.2	5.2	5	100	1.9	1.4	5.0
	CBCP = 5,000		10	50	1.9	1.9	9	46	2.3	2.0	5.2	4	78	3.0	1.6	6.9	7	51	2.6	1.9	7.0
	Rated Life = 2,000 Hrs.		12	35	2.3	2.3	11	31	2.7	2.4	6.4	5	50	3.7	1.9	8.7	9	31	3.3	2.4	9.0
	60 PAR16 /CAP /NFL30	OSI	5	200	1.0	1.0	4	234	1.1	1.0	2.3	3	139	2.3	1.2	5.2	3	278	1.2	0.9	3.0
	Beam Spread = 30° x 30°		6	139	1.2	1.2	5	150	1.3	1.2	2.9	4	78	3.0	1.6	6.9	4	156	1.6	1.2	4.0
	CBCP = 1,300		7	102	1.4	1.4	6	104	1.6	1.4	3.5	5	50	3.7	1.9	8.7	5	100	1.9	1.4	5.0
	Rated Life = 2,000 Hrs.		8	78	1.6	1.6	7	77	1.8	1.6	4.0	6	35	4.5	2.3	10.4	6	69	2.3	1.7	6.0
	75 PAR16 /CAP /NSP10	OSI	5	300	1.0	1.0	5	225	1.3	1.2	2.9	3	208	2.3	1.2	5.2	4	234	1.6	1.2	4.0
	Beam Spread = 10° x 10°		7	153	1.4	1.4	6	156	1.6	1.4	3.5	4	117	3.0	1.6	6.9	5	150	1.9	1.4	5.0
	CBCP = 7,500		9	93	1.7	1.7	7	115	1.8	1.6	4.0	5	75	3.7	1.9	8.7	6	104	2.3	1.7	6.0
	Rated Life = 2,000 Hrs.		11	62	2.1	2.1	8	88	2.0	1.8	4.6	6	52	4.5	2.3	10.4	7	77	2.6	1.9	7.0
	75 PAR16 /CAP /NFL30	OSI	3	211	1.8	1.8	3	158	2.4	2.0	1.7	2	119	5.6	2.3	3.5	2	238	2.5	1.7	2.0
	Beam Spread = 30° x 30°		4	119	2.3	2.3	4	89	3.1	2.6	2.3	3	53	8.4	3.4	5.2	3	106	3.6	2.4	3.0
	CBCP = 1,900		5	76	2.8	2.8	5	57	3.8	3.3	2.9	4	30	11.1	4.5	6.9	4	59	4.8	3.2	4.0
	Rated Life = 2,000 Hrs.		6	53	3.4	3.4	6	40	4.6	3.9	3.5	5	19	13.8	5.5	8.7	5	38	5.9	4.0	5.0
PAR20 Halogen E26 Medium Base																					
	35 PAR20 /HAL /NSP10	OSI	4	188	0.9	0.9	3	250	0.9	0.8	1.7	2	188	1.6	0.9	3.5	3	167	1.3	1.0	3.0
	Beam Spread = 10° x 10°		5	120	1.1	1.1	4	141	1.1	1.0	2.3	3	83	2.4	1.3	5.2	4	94	1.6	1.2	4.0
	CBCP = 3,000		6	83	1.3	1.3	5	90	1.4	1.2	2.9	4	47	3.1	1.6	6.9	5	60	2.0	1.4	5.0
	Rated Life = 2,500 Hrs.		7	61	1.4	1.4	6	63	1.6	1.4	3.5	5	30	3.8	2.0	8.7	6	42	2.3	1.7	6.0
	35 PAR20 /HAL /NFL30	OSI	2	200	1.3	1.3	2	150	1.7	1.4	1.2	1	200	2.9	1.3	1.7	2	100	2.5	1.7	2.0
	Beam Spread = 30° x 30°		3	89	1.8	1.8	3	67	2.4	2.1	1.7	2	50	5.7	2.4	3.5	3	44	3.7	2.5	3.0
	CBCP = 800		4	50	2.4	2.4	4	38	3.1	2.7	2.3	3	22	8.4	3.4	5.2	4	25	4.8	3.2	4.0
	Rated Life = 2,500 Hrs.		5	32	2.9	2.9	5	24	3.9	3.3	2.9	4	13	11.1	4.5	6.9	5	16	6.0	4.0	5.0
	35 PAR20 /HAL /WFL40	OSI	2	125	1.7	1.7	2	94	2.2	1.9	1.2	1	125	5.0	1.7	1.7	1	250	1.9	1.2	1.0
	Beam Spread = 40° x 40°		3	56	2.4	2.4	3	42	3.3	2.7	1.7	2	31	9.9	3.1	3.5	2	63	3.6	2.3	2.0
	CBCP = 500		4	31	3.1	3.1	4	23	4.3	3.6	2.3	3	14	14.7	4.6	5.2	3	28	5.2	3.3	3.0
	Rated Life = 2,500 Hrs.		5	20	3.8	3.8	5	15	5.3	4.4	2.9	4	8	19.5	6.0	6.9	4	16	6.9	4.3	4.0
	50 PAR20 /HAL /NSP10	OSI	4	288	0.9	0.9	4	216	1.1	1.0	2.3	2	288	1.6	0.9	3.5	3	256	1.3	1.0	3.0
	Beam Spread = 10° x 10°		5	184	1.1	1.1	5	138	1.4	1.2	2.9	3	128	2.4	1.3	5.2	4	144	1.6	1.2	4.0
	CBCP = 4,600		6	128	1.3	1.3	6	96	1.6	1.4	3.5	4	72	3.1	1.6	6.9	5	92	2.0	1.4	5.0
	Rated Life = 2,500 Hrs.		7	94	1.4	1.4	7	70	1.8	1.6	4.0	5	46	3.8	2.0	8.7	6	64	2.3	1.7	6.0
	50 PAR20 /HAL /NFL30	OSI	2	300	1.3	1.3	2	225	1.7	1.4	1.2	1	300	2.9	1.3	1.7	2	150	2.5	1.7	2.0
	Beam Spread = 30° x 30°		3	133	1.8	1.8	3	100	2.4	2.1	1.7	2	75	5.7	2.4	3.5	3	67	3.7	2.5	3.0
	CBCP = 1,200		4	75	2.4	2.4	4	56	3.1	2.7	2.3	3	33	8.4	3.4	5.2	4	38	4.8	3.2	4.0
	Rated Life = 2,500 Hrs.		5	48	2.9	2.9	5	36	3.9	3.3	2.9	4	19	11.1	4.5	6.9	5	24	6.0	4.0	5.0
	50 PAR20 /HAL /WFL40	OSI	2	138	1.7	1.7	2	103	2.2	1.9	1.2	1	138	5.0	1.7	1.7	1	275	1.9	1.2	1.0
	Beam Spread = 40° x 40°		3	61	2.4	2.4	3	46	3.3	2.7	1.7	2	34	9.9	3.1	3.5	2	69	3.6	2.3	2.0
	CBCP = 550		4	34	3.1	3.1	4	26	4.3	3.6	2.3	3	15	14.7	4.6	5.2	3	31	5.2	3.3	3.0
	Rated Life = 2,500 Hrs.		5	22	3.8	3.8	5	17	5.3	4.4	2.9	4	9	19.5	6.0	6.9	4	17	6.9	4.3	4.0

120V PAR30, 120V PAR38 LAMP PERFORMANCE DATA

PAR30 (Short Neck) Halogen E26 Medium Base

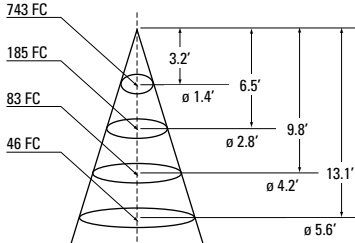
	50 PAR30 /CAP /SPL /NSP9	OSI	6	244	1.3	1.3	5	264	1.4	1.2	2.9	3	244	2.2	1.3	5.2	4	275	1.6	1.2	4.0
	Beam Spread = 9° x 9°		8	138	1.6	1.6	7	135	1.8	1.6	4.0	4	138	2.9	1.6	6.9	5	176	1.9	1.4	5.0
	CBCP = 8,800		10	88	1.9	1.9	9	81	2.2	1.9	5.2	5	88	3.5	1.9	8.7	6	122	2.2	1.6	6.0
	Rated Life = 2,500 Hrs.		12	61	2.2	2.2	11	55	2.6	2.3	6.4	6	61	4.2	2.2	10.4	7	90	2.5	1.9	7.0
	50 PAR30 /CAP /SPL /NFL25	OSI	3	256	1.6	1.6	3	192	2.1	1.8	1.7	2	144	4.5	2.1	3.5	2	288	2.2	1.6	2.0
	Beam Spread = 25° x 25°		8	36	3.9	3.9	4	108	2.7	2.4	2.3	3	64	6.6	3.0	5.2	3	128	3.1	2.2	3.0
	CBCP = 2,300		10	23	4.7	4.7	5	69	3.3	2.9	2.9	4	36	8.6	3.9	6.9	4	72	4.0	2.8	4.0
	Rated Life = 2,500 Hrs.		12	16	5.6	5.6	6	48	3.9	3.4	3.5	5	23	10.7	4.7	8.7	5	46	5.0	3.4	5.0
	50 PAR30 /CAP /SPL /FL40	OSI	3	144	2.5	2.5	2	244	2.3	2.0	1.2	2	81	10.0	3.2	3.5	2	163	3.7	2.4	2.0
	Beam Spread = 40° x 40°		4	81	3.2	3.2	3	108	3.4	2.8	1.7	3	36	14.8	4.7	5.2	3	72	5.3	3.4	3.0
	CBCP = 1,300		5	52	4.0	4.0	4	61	4.4	3.7	2.3	4	20	19.6	6.1	6.9	4	41	7.0	4.4	4.0
	Rated Life = 2,500 Hrs.		6	36	4.7	4.7	5	39	5.4	4.5	2.9	5	13	24.5	7.6	8.7	5	26	8.7	5.5	5.0
	75 PAR30 /CAP /SPL /NSP9	OSI	8	241	1.6	1.6	7	236	1.8	1.6	4.0	4	241	2.9	1.6	6.9	6	214	2.2	1.6	6.0
	Beam Spread = 9° x 9°		11	127	2.0	2.0	9	143	2.2	1.9	5.2	5	154	3.5	1.9	8.7	7	157	2.5	1.9	7.0
	CBCP = 15,400		14	79	2.5	2.5	11	95	2.6	2.3	6.4	6	107	4.2	2.2	10.4	8	120	2.8	2.1	8.0
	Rated Life = 2,500 Hrs.		17	53	3.0	3.0	13	68	3.0	2.7	7.5	7	79	4.8	2.5	12.1	9	95	3.2	2.3	9.0
	75 PAR30 /CAP /SPL /NFL25	OSI	4	250	2.1	2.1	4	188	2.7	2.4	2.3	2	250	4.5	2.1	3.5	3	222	3.1	2.2	3.0
	Beam Spread = 25° x 25°		5	160	2.5	2.5	5	120	3.3	2.9	2.9	3	111	6.6	3.0	5.2	4	125	4.0	2.8	4.0
	CBCP = 4,000		6	111	3.0	3.0	6	83	3.9	3.4	3.5	4	63	8.6	3.9	6.9	5	80	5.0	3.4	5.0
	Rated Life = 2,500 Hrs.		7	82	3.4	3.4	7	61	4.5	3.9	4.0	5	40	10.7	4.7	8.7	6	56	5.9	4.1	6.0
	75 PAR30 /CAP /SPL /FL40	OSI	3	233	2.5	2.5	3	175	3.4	2.8	1.7	2	131	10.0	3.2	3.5	2	263	3.7	2.4	2.0
	Beam Spread = 40° x 40°		4	131	3.2	3.2	4	98	4.4	3.7	2.3	3	58	14.8	4.7	5.2	3	117	5.3	3.4	3.0
	CBCP = 2,100		5	84	4.0	4.0	5	63	5.4	4.5	2.9	4	33	19.6	6.1	6.9	4	66	7.0	4.4	4.0
	Rated Life = 2,500 Hrs.		6	58	4.7	4.7	6	44	6.4	5.4	3.5	5	21	24.5	7.6	8.7	5	42	8.7	5.5	5.0

PAR38 Halogen E26 Medium Base

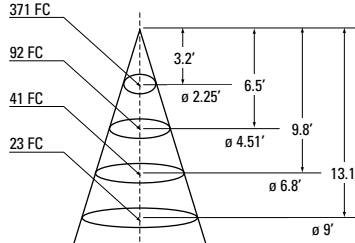
	45 PAR /CAP /SPL /SP9	OSI	6	278	1.3	1.3	4	469	1.2	1.1	2.3	3	278	2.3	1.3	5.2	5	200	2.0	1.5	5.0
	Beam Spread = 9° x 9°		8	156	1.7	1.7	6	208	1.7	1.5	3.5	4	156	3.0	1.7	6.9	6	139	2.3	1.7	6.0
	CBCP = 10,000		10	100	2.0	2.0	8	117	2.1	1.8	4.6	5	100	3.6	2.0	8.7	7	102	2.6	2.0	7.0
	Rated Life = 2,500 Hrs.		12	69	2.3	2.3	10	75	2.5	2.2	5.8	6	69	4.2	2.3	10.4	8	78	2.9	2.2	8.0
	45 PAR /CAP /SPL /FL30	OSI	3	167	2.0	2.0	2	281	1.9	1.6	1.2	2	94	5.9	2.5	3.5	2	188	2.7	1.9	2.0
	Beam Spread = 30° x 30°		4	94	2.5	2.5	3	125	2.6	2.3	1.7	3	42	8.6	3.6	5.2	3	83	3.9	2.7	3.0
	CBCP = 1,500		5	60	3.1	3.1	4	70	3.3	2.9	2.3	4	23	11.3	4.7	6.9	4	47	5.0	3.4	4.0
	Rated Life = 2,500 Hrs.		6	42	3.6	3.6	5	45	4.1	3.5	2.9	5	15	14.1	5.8	8.7	5	30	6.2	4.2	5.0
	45 PAR /CAP /SPL /WFL50	OSI	2	175	2.3	2.3	2	131	3.1	2.5	1.2	1	175	11.1	2.3	1.7	2	88	5.2	3.0	2.0
	Beam Spread = 50° x 50°		3	78	3.2	3.2	3	58	4.4	3.6	1.7	2	44	21.9	4.1	3.5	3	39	7.5	4.4	3.0
	CBCP = 700		4	44	4.1	4.1	4	33	5.8	4.7	2.3	3	19	32.6	6.0	5.2	4	22	9.9	5.7	4.0
	Rated Life = 2,500 Hrs.		5	28	5.1	5.1	5	21	7.1	5.8	2.9	4	11	43.3	7.9	6.9	5	14	12.3	7.0	5.0
	60 PAR /CAP /SPL /SP9	OSI	8	250	1.7	1.7	7	245	1.9	1.7	4.0	4	250	3.0	1.7	6.9	6	222	2.3	1.7	6.0
	Beam Spread = 9° x 9°		11	132	2.1	2.1	9	148	2.3	2.0	5.2	5	160	3.6	2.0	8.7	8	125	2.9	2.2	8.0
	CBCP = 16,000		14	82	2.6	2.6	11	99	2.7	2.4	6.4	6	111	4.2	2.3	10.4	10	80	3.6	2.6	10.0
	Rated Life = 3,000 Hrs.		17	55	3.1	3.1	13	71	3.1	2.8	7.5	7	82	4.9	2.6	12.1	12	56	4.2	3.1	12.0
	60 PAR /CAP /SPL /NFL25	OSI	4	206	2.2	2.2	3	275	2.2	1.9	1.7	2	206	4.6	2.2	3.5	3	183	3.2	2.3	3.0
	Beam Spread = 25° x 25°		5	132	2.6	2.6	4	155	2.8	2.4	2.3	3	92	6.6	3.1	5.2	4	103	4.1	2.9	4.0
	CBCP = 3,300		6	92	3.1	3.1	5	99	3.4	3.0	2.9	4	52	8.7	3.9	6.9	5	66	5.1	3.5	5.0
	Rated Life = 3,000 Hrs.		7	67	3.5	3.5	6	69	4.0	3.5	3.5	5	33	10.8	4.8	8.7	6	46	6.0	4.2	6.0
	60 PAR /CAP /SPL /FL30	OSI	3	278	2.0	2.0	3	208	2.6	2.3	1.7	2	156	5.9	2.5	3.5	3	139	3.9	2.7	3.0
	Beam Spread = 30° x 30°		4	156	2.5	2.5	4	117	3.3	2.9	2.3	3	69	8.6	3.6	5.2	4	78	5.0	3.4	4.0
	CBCP = 2,500		5	100	3.1	3.1	5	75	4.1	3.5	2.9	4	39	11.3	4.7	6.9	5	50	6.2	4.2	5.0
	Rated Life = 3,000 Hrs.		6	69	3.6	3.6	6	52	4.8	4.1	3.5	5	25	14.1	5.8	8.7	6	35	7.3	4.9	6.0
	90 PAR /CAP /SPL /SP9	OSI	9	274	1.8	1.8	8	260	2.1	1.8	4.6	5	222	3.6	2.0	8.7	7	227	2.6	2.0	7.0
	Beam Spread = 9° x 9°		12	154	2.3	2.3	11	138	2.7	2.4	6.4	6	154	4.2	2.3	10.4	9	137	3.2	2.4	9.0
	CBCP = 22,000		15	99	2.8	2.8	14	85	3.3	2.9	8.1	7	113	4.9	2.6	12.1	11	92	3.9	2.8	11.0
	Rated Life = 2,500 Hrs.		18	69	3.2	3.2	17	58	4.0	3.5	9.8	8	87	5.5	2.9	13.9	13	66	4.5	3.3	13.0
	90 PAR /CAP /SPL /FL30	OSI	4	219	2.5	2.5	3	292	2.6	2.3	1.7	2	219	5.9	2.5	3.5	3	194	3.9	2.7	3.0
	Beam Spread = 30° x 30°		6	97	3.6	3.6	4	164	3.3	2.9	2.3	3	97	8.6	3.6	5.2	4	109	5.0	3.4	4.0
	CBCP = 3,500		8	55	4.7	4.7	5	105	4.1	3.5	2.9	4	55	11.3	4.7	6.9	5	70	6.2	4.2	5.0
	Rated Life = 2,500 Hrs.		10	35	5.8	5.8	6	73	4.8	4.1	3.5	5	35	14.1	5.8	8.7	6	49	7.3	4.9	6.0
	120 PAR /CAP /SPL /FL30	OSI	4	288	2.5	2.5	4	216	3.3	2.9	2.3	2	288	5.9	2.5	3.5	3	256	3.9	2.7	3.0
	Beam Spread = 30° x 30°		5	184	3.1	3.1	5	138	4.1	3.5	2.9	3	128	8.6	3.6	5.2	4	144	5.0	3.4	4.

ES16MH BRITESPOT™ LAMP PERFORMANCE DATA

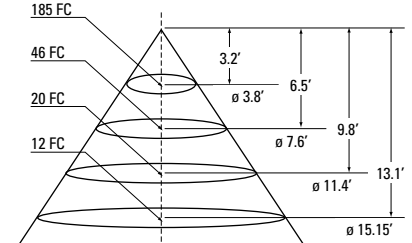
ES16MH LAMP - 39 Watt



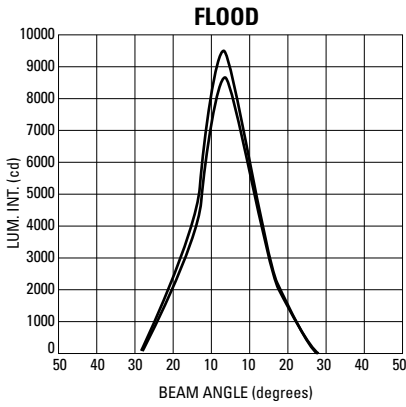
BriteSpot™ ES16 39W 24°



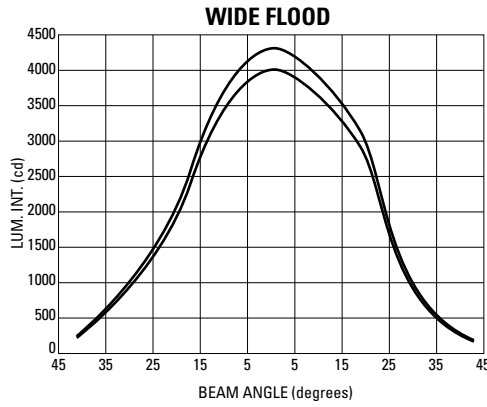
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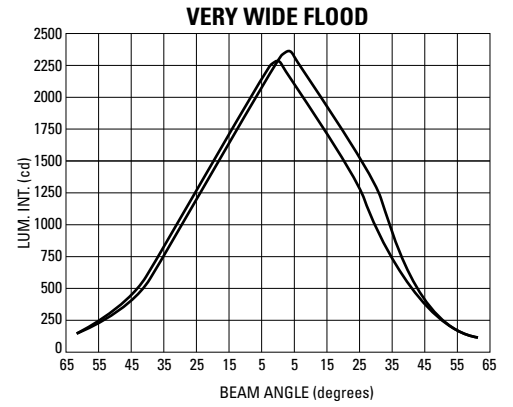
BriteSpot™ ES16 39W 60°



FLOOD

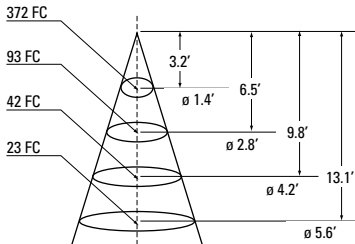


WIDE FLOOD

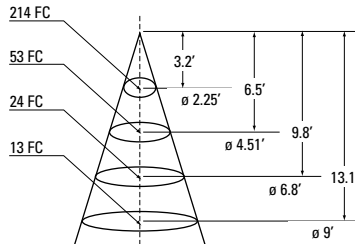


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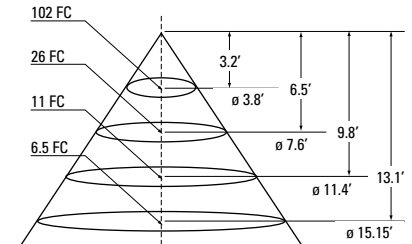
ES16MH LAMP - 20 Watt



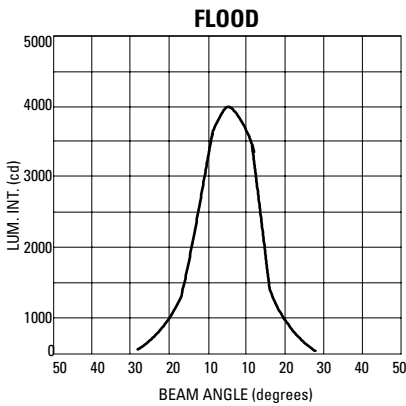
BriteSpot™ ES16 20W 24°



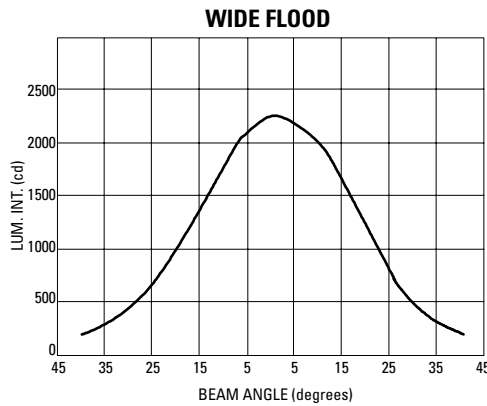
BriteSpot™ ES16 20W 38°



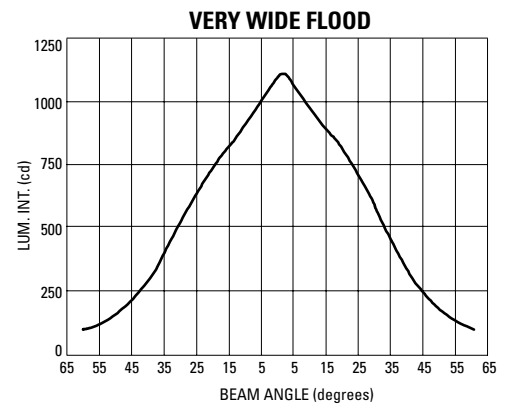
BriteSpot™ ES16 20W 60°



FLOOD



WIDE FLOOD



VERY WIDE FLOOD

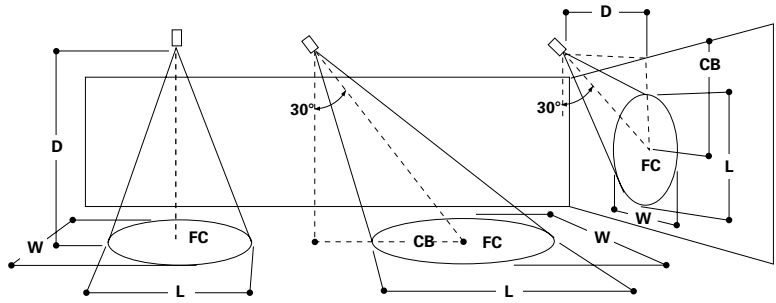
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PAR20MH, PAR30MH, PAR38MH LAMP PERFORMANCE DATA

Lamp Performance Data

D = Distance to the horizontal or vertical surface.
 FC = Initial footcandles at the center of the beam.
 L = Length of the beam where candlepower is reduced to 50% of center beam candlepower.
 W = Width of the beam where candlepower is reduced to 50% of center beam candlepower.
 CB = Distance to the center of the beam.

Lamp data given is typical and is based on bare lamp performance.
 Contact lamp manufacturers for availability and specific performance.
 Distance, length and width given in decimal feet.



	0° Aiming Angle Horizontal Footcandles				30° Aiming Angle Horizontal Footcandles				30° Aiming Angle Vertical Footcandles				45° Aiming Angle Vertical Footcandles								
	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB		
PAR20MH Ceramic Metal Halide																					
	CDM35 /PAR20 /M /SP	PHI	9	284	1.7	1.7	9	184	2.2	2.7	5.2	3	319	2.2	2.2	5.2	6	226	2.3	1.6	6.0
	Beam Spread = 10° x 10°		13	136	2.4	2.4	13	88	3.2	3.9	7.5	4	180	3.0	3.0	6.9	8	127	3.0	2.1	8.0
	CBCP = 23000		16	90	3.0	3.0	16	58	4.0	4.8	9.2	5	115	3.7	3.7	8.7	10	81	3.8	2.7	10.0
	Rated Life = 9,000 Hrs.		20	57	3.7	3.7	20	37	5.0	6.0	11.5	6	80	4.5	4.5	10.4	12	56	4.5	3.2	12.0
	CDM35 /PAR20 /M /FL	PHI	4	313	2.2	2.2	4	228	2.5	2.3	2.3	2	285	2.0	1.6	3.5	3	269	2.2	1.9	3.0
	Beam Spread = 30° x 30°		6	139	3.3	3.3	6	101	3.8	3.5	3.5	3	127	2.9	2.3	5.2	4	151	3.0	2.6	4.0
	CBCP = 5000		8	78	4.3	4.3	8	57	5.1	4.6	4.6	4	71	3.9	3.1	6.9	5	97	3.7	3.2	5.0
	Rated Life = 9,000 Hrs.		10	50	5.4	5.4	10	37	6.4	5.8	5.8	5	46	4.9	3.9	8.7	6	67	4.4	3.9	6.0
PAR30MH Ceramic Metal Halide																					
	CDM35 /PAR30L /M /SP	PHI	15	196	2.3	2.3	15	127	3.0	2.5	8.7	5	220	3.1	1.6	8.7	8	243	2.5	1.7	8.0
	Beam Spread = 10° x 10°		20	110	3.1	3.1	20	71	4.0	3.4	11.5	6	153	3.8	1.9	10.4	10	156	3.1	2.1	10.0
	CBCP = 44000		25	70	3.9	3.9	25	46	5.0	4.2	14.4	7	112	4.4	2.3	12.1	12	108	3.7	2.5	12.0
	Rated Life = 9,000 Hrs.		30	49	4.7	4.7	30	32	6.0	5.1	17.3	8	86	5.0	2.6	13.9	14	79	4.3	3.0	14.0
	CDM35 /PAR30L /M /FL	PHI	5	296	2.5	2.5	5	212	3.0	2.7	2.9	3	175	2.9	2.2	5.2	4	210	2.9	2.4	4.0
	Beam Spread = 30° x 30°		7	151	3.5	3.5	7	108	4.2	3.8	4.0	4	99	3.9	3.0	6.9	5	134	3.6	3.1	5.0
	CBCP = 7400		9	91	4.5	4.5	9	65	5.3	4.8	5.2	5	63	4.9	3.7	8.7	6	93	4.4	3.7	6.0
	Rated Life = 9,000 Hrs.		11	61	5.5	5.5	11	44	6.5	5.9	6.4	6	44	5.8	4.5	10.4	7	68	5.1	4.3	7.0
	CDM70 /PAR30L /M /SP	PHI	15	302	2.6	2.6	15	196	3.4	2.8	8.7	6	236	4.2	2.2	10.4	10	240	3.5	2.5	10.0
	Beam Spread = 10° x 10°		20	170	3.4	3.4	20	110	4.5	3.8	11.5	8	133	5.7	2.9	13.9	12	167	4.2	2.9	12.0
	CBCP = 68000		25	109	4.3	4.3	25	71	5.7	4.7	14.4	10	85	7.1	3.6	17.3	14	123	4.9	3.4	14.0
	Rated Life = 9,000 Hrs.		30	76	5.2	5.2	30	49	6.8	5.7	17.3	12	59	8.5	4.4	20.8	16	94	5.6	3.9	16.0
	CDM70 /PAR30L /M /FL	PHI	6	278	3.9	3.9	6	217	4.2	4.0	3.5	3	295	2.9	2.6	5.2	4	325	3.1	2.9	4.0
	Beam Spread = 40° x 40°		8	156	5.2	5.2	8	122	5.6	5.4	4.6	4	166	3.8	3.5	6.9	6	144	4.7	4.4	6.0
	CBCP = 10000		10	100	6.4	6.4	10	78	7.0	6.7	5.8	5	106	4.8	4.4	8.7	8	81	6.2	5.8	8.0
	Rated Life = 9,000 Hrs.		12	69	7.7	7.7	12	54	8.0	8.0	6.9	6	74	5.8	5.2	10.4	10	52	7.8	7.3	10.0
PAR38MH Ceramic Metal Halide																					
	CDM70 /PAR38 /SP /3K	PHI	15	207	3.7	3.7	15	134	4.7	4.2	8.7	5	244	4.2	2.4	8.7	8	257	3.7	2.7	8.0
	Beam Spread = 15° x 15°		20	116	5.0	5.0	20	76	6.3	5.6	11.5	7	125	5.9	3.4	12.1	10	165	4.6	3.4	10.0
	CBCP = 46572		25	75	6.2	6.2	25	48	7.8	7.0	14.4	9	75	7.6	4.3	15.6	12	114	5.5	4.0	12.0
	Rated Life = 10,000 Hrs.		30	52	7.5	7.5	30	34	9.4	8.4	17.3	11	50	9.2	5.3	19.1	14	84	6.4	4.7	14.0
	CDM70 /PAR38 /FL /3K	PHI	8	276	3.5	3.5	8	186	4.3	3.9	4.6	5	127	5.3	3.6	8.7	5	283	3.6	2.9	5.0
	Beam Spread = 25° x 25°		10	177	4.4	4.4	10	119	5.4	4.9	5.8	7	65	7.4	5.0	12.1	7	145	5.0	4.0	7.0
	CBCP = 17697		12	123	5.2	5.2	12	82	6.5	5.9	6.9	9	39	9.5	6.5	15.6	9	87	6.4	5.1	9.0
	Rated Life = 10,000 Hrs.		14	90	6.1	6.1	14	61	7.5	6.8	8.1	11	26	11.6	7.9	19.1	11	59	7.9	6.3	11.0
	CDM70 /PAR38 /WFL /3K	PHI	4	301	3.2	3.2	4	211	3.8	4.0	2.3	3	178	3.3	3.4	5.2	3	266	3.2	3.3	3.0
	Beam Spread = 60° x 60°		6	134	4.9	4.9	6	94	5.6	6.0	3.5	4	100	4.5	4.6	6.9	4	150	4.2	4.4	4.0
	CBCP = 4822		8	75	6.5	6.5	8	53	7.5	8.0	4.6	5	64	5.6	5.7	8.7	5	96	5.3	5.5	5.0
	Rated Life = 10,000 Hrs.		10	48	8.1	8.1	10	34	9.4	10.0	5.8	6	44	6.7	6.9	10.4	6	67	6.4	6.6	6.0
	CDM100 /PAR38 /SP /3K	PHI	15	284	3.8	3.8	15	185	4.8	4.3	8.7	6	234	5.1	2.9	10.4	10	226	4.7	3.4	10.0
	Beam Spread = 15° x 15°		20	160	5.1	5.1	20	104	6.4	5.7	11.5	8	132	6.8	3.9	13.9	12	157	5.6	4.1	12.0
	CBCP = 639747		25	102	6.3	6.3	25	66	7.9	7.1	14.4	10	84	8.5	4.9	17.3	14	115	6.5	4.8	14.0
	Rated Life = 10,000 Hrs.		30	71	7.6	7.6	30	46	9.5	8.5	17.3	12	58	10.3	5.8	20.8	16	88	7.5	5.5	16.0
	CDM100 /PAR38 /FL /3K	PHI	9	279	4.1	4.1	9	187	5.0	4.6	5.2	4	259	4.2	2.9	6.9	6	253	4.4	4.8	6.0
	Beam Spread = 25° x 25°		13	134	5.9	5.9	13	90	7.3	6.6	7.5	5	166	5.3	3.7	8.7	8	142	5.9	6.4	8.0
	CBCP = 22614		17	78	7.7	7.7	17	52	9.5	8.6	9.8	7	85	7.4	5.1	12.1	10	91	7.3	8.0	10.0
	Rated Life = 10,000 Hrs.		20	57	9.0	9.0	20	38	11.2	10.1	11.5	9	51	9.5	6.6	15.6	12	63	8.8	9.6	12.0
	CDM100 /PAR38 /WFL /3K	PHI	5	274	3.8	3.8	5	195	4.7	4.5	2.9	3	233	3.7	3.4	5.2	3	353	3.4	4.5	3.0
	Beam Spread = 60° x 60°		7	140	5.3	5.3	7	100	6.5	6.3	4.0	4	131	5.0	4.6	6.9	4	198	4.5	6.0	4.0
	CBCP = 6862		9	85	6.8	6.8	9	60	8.4	8.1	5.2	5	84	6.2	5.7	8.7	5	127	5.7	7.5	5.0
	Rated Life = 10,000 Hrs.		11	57	8.3	8.3	11	40	10.2	9.9	6.4	6	58	7.4	6.9	10.4	6	88	6.8	9.0	6.0

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